

# Yangzhou Positioning Tech Co., Ltd

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Focused on Power Electronic Components

Manufacturing & Exportation

SINCE 1987



YZPST<sup>®</sup>

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# YZPST Introduction

Welcome to YZPST

PART ONE



- YZPST is one of the world's leading suppliers of Semiconductor components and power solutions for a wide range of industries.
- With innovation, technology is combined with expertise unparalleled.
- We offer a variety of Ready-to-use equipment to leading companies in all sorts of industries around the world.

[Click the link and send us your inquiries.](#)

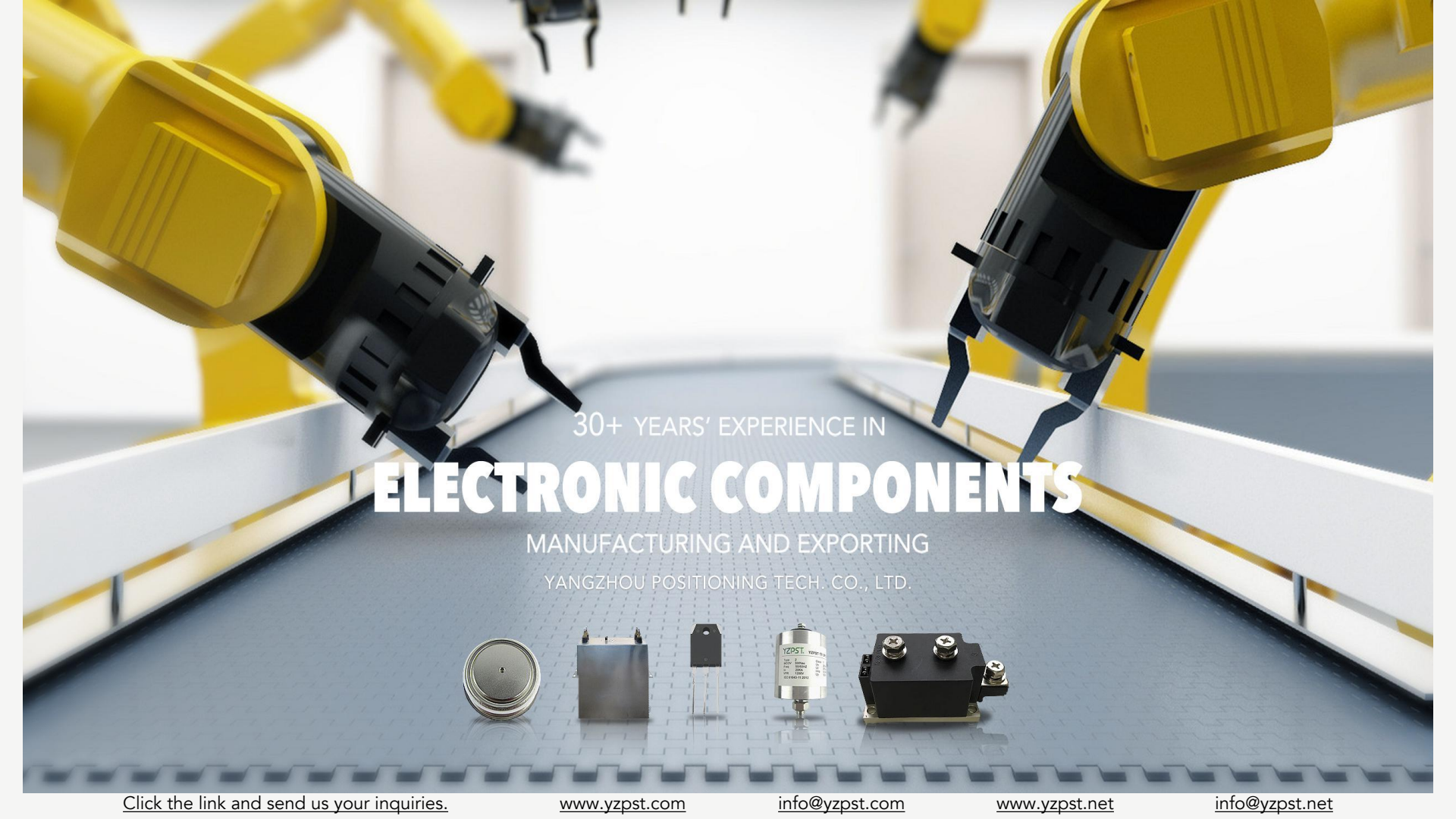
[www.yzpst.com](http://www.yzpst.com)

- **34 Years' Experience** in manufacturing and exporting high quality and cost-effective electronic components.
- **800+ Employees**
- Multiple manufacturers of totally **50,000+ Square Meters**.
- **500,000+ Successful Cases** of business from **160+ Countries and Regions**.
- AEO Certificate, UL Certificate, CE Certificate, RoHS Certificate and ISO9001 Certificate.
- Provide One-Stop Industrial Solution in many ways.
  - Inductor Furnace Spare Parts One-Stop Solution;
  - Completed Power Capacitor Bank System One-Stop Solution;
  - Welding machine special device One-Stop Solution;
  - Medical Equipments One-Stop Solution;
  - Locomotive Electronic One-Stop Solution;
  - Home Appliance One-Stop Solution;
  - Rectifier cabinet One-Stop Solution;
  - 5G Communication Base Station One-Stop Solution;
  - Industrial Robots/ Motion Control / Solar Power One-Stop Solution;
  - Electrochemical Energy Storage One-Stop Solution;
  - Completed Power Capacitor Bank System One-Stop Solution;
  - New Energy Vehicles Wind Power One-Stop Solution;
- High reputation in the field.

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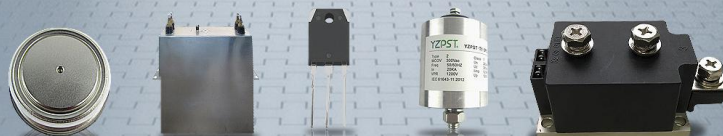


30+ YEARS' EXPERIENCE IN

# ELECTRONIC COMPONENTS

MANUFACTURING AND EXPORTING

YANGZHOU POSITIONING TECH. CO., LTD.



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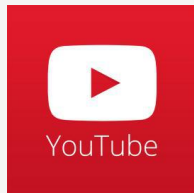
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<https://www.youtube.com/c/YangzhouPositioningTechCoLtd>



Tik Tok

@yzpositioning

# YZPST Products

We assist our valued customers in designing and developing their products standing on the creative and innovative foot. We manufacture the products with quality assurance, delivery accuracy and cost effectiveness.

PART TWO

## 10 Main Categories

### 2.1 Power Thyristors:

Phase control thyristors,  
Inverter thyristors,  
Reverse Conducting Thyristors (RCT),  
Asymmetric thyristors,  
Fast switching thyristors,  
High frequency thyristors,  
Welding thyristors,  
Solid state relays,  
Bi-directional thyristor,  
【In Stud & Capsule Packages】

### 2.2 Power Diodes:

Rectifier diode (Standard diode),  
Standard recovery diode,  
Fast recovery diodes,  
High voltage diode,  
Schottky diode,  
Welding diode,  
Press-Fit diode,  
【In Stud, Capsule & Plastic Packages】

### 2.3 Ceramic Housings

### 2.4 Transistors, Triacs & SCRs:

Triac (two-way SCR),  
Snubberless triac,  
MOSFET, SiC MOSFET,  
Transistor,  
IGBT,  
TSS, TVS,  
Chips;

### 2.5 Semiconductor Modules:

Bridge rectifier modules,  
Thyristor-thyristor modules,  
Thyristor-diode modules,  
Single diode modules and thyristor modules,  
Single-Phase rectifier bridge modules,  
Fast recovery diodes modules,  
Fast recovery bridges rectifier modules,  
Schottky modules,  
MOSFET modules,  
Ultrafast recovery diode modules,  
Half controlled bridge rectifier module,  
IGBT modules;

### 2.6 Capacitors:

Induction heating capacitor,  
Water-Cooled capacitor,  
Tank capacitor and Air-Cooled capacitor,  
ALL PP capacitor,  
Furnace duty capacitor;  
Polypropylene film capacitor,  
Electronic heat induct furnace capacitors ,  
Medium Frequency Capacitors,  
Locomotive capacitors,  
High and low voltage shunt capacitors,  
Power transmission capacitor,  
-  
Damping capacitors ,  
Snubber capacitors,  
Absorption capacitors,  
Impulse capacitors,  
Ignition capacitor,  
AC/DC filter capacitor,  
Pulse capacitors,  
-

-  
Polyester film capacitor,  
Metallized polypropylene film capacitor,  
Safety standard capacitor,  
Energy storage capacitor,  
Electrolytic capacitors,  
Conductive polymer aluminum solid capacitor,  
Ceramic capacitor,  
Super capacitor;

### 2.7 Semiconductor Fuses

### 2.8 Power Resistors:

Power Thick Film Resistors,  
Metal film resistors,  
Metal oxide film fixed resistors,  
Wire wound fixed resistors,  
Carbon film resistors,  
Cement fixed resistors etc.

### 2.9 Litz wire, Enamelled wire.

### 2.10 Parts for LED drivers:

Ferrite, Filter, Toroid,  
Inductor, Transformer, Antenna,  
Choke;



# YZPST Products - Power Thyristors

# Power Thyristors

## Brief



YANGZHOU POSITIONING TECH. CO., LTD



- With semiconductor chip research and market development as the core, Yangzhou Positioning Tech Co., Ltd. has successively produced high-voltage thyristors, RCT, Asymmetric thyristors, Rectifier Diodes, power units and other power semiconductor devices. Widely used in medical equipment, high voltage test equipment, induction heating furnace, steel casting, soft starter, power factor compensation, railway drive etc.
- Pay attention to the specific conditions of products in different fields, it develops independent brand products (brand YZPST and PST) with higher cost performance to meet the customers at different levels at home and abroad.
- According to the specific requirements of customers, accept customized services.
- Stud Thyristors is widely used in electric welding machines and induction heating furnaces, etc. similar to capsule thyristor.

# Power Thyristors

## Phase Control Thyristors - Capsule Type

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- YZPST is a key leading supplier of phase control products into demanding markets in china ,such as industrial DC drives, induction melting, marine/rail propulsion systems, wind power converters, electrochemical power supplies and soft starters.
- These devices are optimized to give low conduction losses and are primarily intended for applications with line frequencies up to 400Hz.

- Low on-state and switching losses
- Designed for traction, energy and industrial applications
- Optimum power handling capability
- High power thyristor for phase control applications



<https://www.yzpst.net/yzpst-5stp34n5200-15893624042076653.html>



<https://www.yzpst.net/yzpst-st280ch04-15893633987751548.html>

## Phase Control Thyristors - Capsule Type

| Type      | IT(AV) | VDRM/VRRM  | ITSM<br>@TVJM<br>&10ms | IDRM/IRRM<br>(max)<br>Tj=125°C | VTM(max) |      | Tvj | Rthjc | F±10% |
|-----------|--------|------------|------------------------|--------------------------------|----------|------|-----|-------|-------|
|           |        |            |                        |                                | ITM      | VTM  |     |       |       |
|           | A      | V          | KA                     | mA                             | A        | V    | C   | K/W   | KN    |
| PSTC380   | 250    | 400- 1600  | 3.5                    | 20                             | 1500     | 2.80 | 125 | 0.11  | 5     |
| PSTC430   | 680    | 400- 1600  | 8.0                    | 20                             | 3000     | 2.40 | 125 | 0.06  | 10    |
| PSTC431   | 600    | 1200- 1800 | 5.9                    | 30                             | 3000     | 2.60 | 125 | 0.06  | 10    |
| PSTC440   | 900    | 400- 1600  | 12                     | 35                             | 3000     | 1.65 | 125 | 0.04  | 15    |
| PSTC441   | 750    | 1400-2200  | 10                     | 35                             | 3000     | 2.0  | 125 | 0.04  | 15    |
| PSTC450   | 1640   | 400- 1600  | 26                     | 45                             | 3000     | 1.40 | 125 | 0.02  | 25    |
| PSTC451   | 1500   | 1400-2200  | 20.8                   | 45                             | 3000     | 1.70 | 125 | 0.02  | 25    |
| PSTC701   | 1250   | 1200-2100  | 16.6                   | 65                             | 3000     | 1.70 | 125 | 0.02  | 25    |
| PSTC702   | 100    | 2400-3200  | 20.5                   | 150                            | 3000     | 1.85 | 125 | 0.02  | 25    |
| PSTSDT122 | 950    | 3500-4000  | 14.7                   | 75                             | 1000     | 1.60 | 125 | 0.02  | 25    |
| PSTC781   | 2500   | 1200-2100  | 41.5                   | 150                            | 2000     | 1.20 | 125 | 0.01  | 36    |
| PSTC782   | 2300   | 2200-2600  | 32                     | 150                            | 2000     | 1.35 | 125 | 0.01  | 36    |
| PSTC784   | 1650   | 3600-4500  | 24                     | 200                            | 2000     | 1.85 | 125 | 0.01  | 36    |
| PSTC789   | 1200   | 5500-6000  | 20                     | 200                            | 2000     | 2.3  | 115 | 0.01  | 36    |

# Power Thyristors

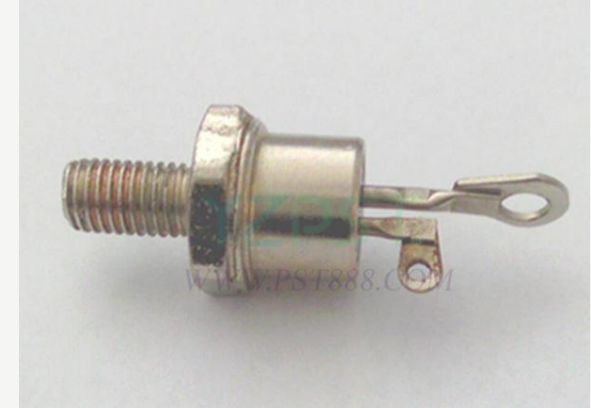
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## Phase Control Thyristors - Stud Type



<https://www.yzpst.com/phase-control-stud-thyristor/55100888.html>



<https://www.yzpst.com/phase-control-stud-thyristor/55101064.html>

<https://www.yzpst.net/yzpst-t171-320-10-15893634291999339.html>

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## Phase Control Thyristors - Stud Type

| Type  | IT(AV) | VTM/ITM |      | VDRM<br>VRRM | IDRM<br>IRRM | IGT | VGT | dv/dt      | Tjm | F    |
|-------|--------|---------|------|--------------|--------------|-----|-----|------------|-----|------|
|       | A      | V/A     |      | V            | mA           | mA  | V   | V/ $\mu$ s | °C  |      |
| KP5   | 5      | 2.2     | 15   | 300- 1600    | 5            | 100 | 2.0 |            | 125 |      |
| KP20  | 20     | 2.2     | 60   | 300- 1600    | 10           | 100 | 2.0 |            | 125 | 10Nm |
| KP50  | 50     | 2.2     | 150  | 300- 1600    | 15           | 100 | 2.0 | 500        | 125 | 16Nm |
| KP100 | 100    | 2.8     | 300  | 100-2200     | 20           | 200 | 2.5 | 500        | 125 | 33Nm |
| KP200 | 200    | 2.8     | 600  | 100-2200     | 25           | 200 | 2.5 | 500        | 125 | 4 KN |
| KP300 | 300    | 2.8     | 900  | 100-2200     | 30           | 200 | 2.5 | 500        | 125 | 7 KN |
| KP500 | 500    | 3.0     | 1500 | 100-2200     | 45           | 300 | 3.0 | 500        | 125 | 10KN |

# Power Thyristors

## Inverter Thyristors - Capsule Type

- All diffused structure
- Interdigitated amplifying gate configuration
- Blocking capability up
- Guaranteed maximum turn-off time
- High  $dv/dt$  capability
- Pressure assembled device
- Power thyristor for inverter and chopper applications

The Inverter Thyristors (Fast Switching Thyristors) have regenerative gate structure to ensure low switching losses and high  $di/dt$  performance. This Series devices are particularly attractive to Inverter, DC chopper drives, UPS and Pulse Power applications.

In addition to pressure contact technology these devices offer lower reverse recovery charge values, low forward switching losses and high reliability.

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<https://www.yzpst.net/yzpst-c712l-15893588407217470.html>



<https://www.yzpst.net/yzpst-r2619zc25j-15893591925570169.html>

## Inverter Thyristors - Capsule Type

| Type     | IT(AV) | VDRM/VRRM | ITSM@TVJM<br>&10ms | IDRM/IRRM(max)<br>Tj=125°C | VTM(max) |      | Tvj | Rthjc | F±10% |
|----------|--------|-----------|--------------------|----------------------------|----------|------|-----|-------|-------|
|          |        |           |                    |                            | ITM      | VTM  |     |       |       |
|          | A      | V         | KA                 | mA                         | A        | V    | C   | K/W   | KN    |
| PST C476 | 200    | 600- 1400 | 5.5                | 35                         | 1200     | 2.5  | 125 | 0.06  | 10    |
| PST C448 | 700    | 600- 1400 | 9.1                | 35                         | 2000     | 2.9  | 125 | 0.04  | 15    |
| PST C612 | 700    | 1600-2000 | 9.0                | 60                         | 2000     | 2.21 | 125 | 0.04  | 15    |
| PST C458 | 1200   | 600- 1400 | 14.6               | 65                         | 2000     | 2.35 | 125 | 0.02  | 25    |
| PST C712 | 1125   | 1600-2000 | 20                 | 60                         | 1000     | 1.45 | 125 | 0.02  | 25    |
| PST C770 | 2100   | 1800      | 35                 | 100                        | 2000     | 1.55 | 125 | 0.01  | 36    |

# Power Thyristors



YANGZHOU POSITIONING TECH. CO., LTD

## Reverse Conducting Thyristors (RCT) - Capsule Type

### Features:

- Monolithic integration of fast thyristor and fast diode
- Small size and less weight
- High reliability
- Less on-state losses

### Application:

- Switching Power Supply
- UPS
- Locomotive traction



<https://www.yzpst.net/yzpst-fr1000ax50-15893638889257980.html>



<https://www.yzpst.net/1300v-fast-switching-reverse-conducting-thyristor-rct-16238325616670436.html>

## Reverse Conducting Thyristors (RCT) - Capsule Type

| Type                      | IF(AV) | VRRM | IFSM@TVJM<br>&10ms | IRRM(max)<br>&Tj=TVJM | VTM(max) |     | trr(max) | Tvj | Rthjc | F±10% |
|---------------------------|--------|------|--------------------|-----------------------|----------|-----|----------|-----|-------|-------|
|                           | A      | V    | KA                 | IFM(A)                | V        | μs  | V        | C   | K/W   | KN    |
| SHR400R22(21)<br>(CSR328) | 240    | 1300 | 5600               | 40                    | 500      | 2.3 | 3.0      | 125 | 0.08  | 16    |
| FR600AW(AX)               | 150    | 2500 | 3500               | 50                    | 1200     | 4   | 3.0      | 125 | 0.03  | 26    |
| FR1000BX(BW)              | 400    | 2500 | 6000               | 100                   | 1200     | 4   | 4.0      | 125 | 0.022 | 40    |
| TP909FC                   | 400    | 2500 | 6000               | 100                   | 1000     | 2.6 | 4.0      | 125 | 0.02  | 33    |
| TP978FC                   | 400    | 2400 | 6000               | 100                   | 1000     | 2.6 | 4.0      | 125 | 0.021 | 33    |

# Power Thyristors

## High Voltage Thyristors - Capsule Type

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### Features:

- Unique Process for the passivation.
- Low on-state and switching losses
- Designed for traction, energy and industrial applications
- Optimum power handling capability
- High power thyristor for phase control applications

### The typical application:

- DC drives, electrochemical power supplies and soft starters etc.



<https://www.yzpst.com/phase-control-thyristor/55101088.html>



<https://www.yzpst.com/thyristor-module/57282689.html>

# Power Thyristors



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## High Voltage Thyristors - Capsule Type

| Type      | IF(AV) | VRRM  | IFSM<br>@TVJM&10ms | IRRM(max)<br>Tj=125°C | VTM(max) |      | dV/dT | F±10% | Outline   |
|-----------|--------|-------|--------------------|-----------------------|----------|------|-------|-------|-----------|
|           |        |       |                    |                       | ITM      | VTM  |       |       |           |
|           | A      | V     | KA                 | mA                    | A        | V    | V/μS  | KN    |           |
| HT500-40  | 500A   | 4000V | 6.4                | ≤ 150mA               | 500      | 1.80 | 800   | 8     | TO        |
| HT1000-40 | 1000A  | 4000V | 14                 | ≤ 150mA               | 2000     | 2.10 | 1000  | 22    | TO-200AD  |
| HT1700-40 | 1700A  | 4000V | 32                 | ≤ 150mA               | 2000     | 1.70 | 1200  | 50    | TO-200AE1 |
| HT2200-40 | 2200A  | 4000V | 52                 | ≤ 150mA               | 3000     | 1.50 | 1500  | 70    | TO-200AE2 |
| HT2800-40 | 2800A  | 4000V | 60                 | ≤ 150mA               | 3000     | 1.60 | 2000  | 90    | TO-200AF  |
| HT500-45  | 500A   | 4500V | 6                  | ≤ 150mA               | 500      | 2.20 | 800   | 8     | TO-200AC  |
| HT1000-45 | 1000A  | 4500V | 14.5               | ≤ 150mA               | 2000     | 2.30 | 1000  | 22    | TO-200AD  |
| HT1700-45 | 1700A  | 4500V | 29                 | ≤ 150mA               | 2000     | 1.90 | 1200  | 50    | TO-200AE1 |
| HT2200-45 | 2200A  | 4500V | 48                 | ≤ 150mA               | 2000     | 1.70 | 1500  | 70    | TO-200AE2 |

# Power Thyristors



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## High Voltage Thyristors - Capsule Type

| Type      | IF(AV) | VRRM  | IFSM<br>@TVJM&10ms | IRRM(max)<br>Tj=125°C | VTM(max) |      | dV/dT | F±10% | Outline   |
|-----------|--------|-------|--------------------|-----------------------|----------|------|-------|-------|-----------|
|           |        |       |                    |                       | ITM      | VTM  |       |       |           |
|           | A      | V     | KA                 | mA                    | A        | V    | V/μS  | KN    |           |
| HT2200-50 | 2200A  | 5000V | 42                 | ≤ 200mA               | 3000     | 1.90 | 1500  | 70    | TO-200AE2 |
| HT500-50  | 500A   | 5000V | 5.5                | ≤ 200mA               | 500      | 2.30 | 800   | 8     | TO-200AC  |
| HT1000-50 | 1000A  | 5000V | 15                 | ≤ 200mA               | 2000     | 2.50 | 1000  | 22    | TO-200AD  |
| HT1700-50 | 1700A  | 5000V | 27                 | ≤ 200mA               | 2000     | 2.10 | 1200  | 50    | TO-200AE1 |
| HT2200-50 | 2200A  | 5000V | 42                 | ≤ 200mA               | 3000     | 1.90 | 1500  | 70    | TO-200AE2 |
| HT2800-50 | 2800A  | 5000V | 55                 | ≤ 200mA               | 3000     | 2.00 | 2000  | 90    | TO-200AF  |
| HT500-55  | 500A   | 5500V | 5.5                | ≤ 200mA               | 500      | 2.30 | 800   | 8     | TO-200AC  |
| HT1000-55 | 1000A  | 5500V | 11.8               | ≤ 200mA               | 1000     | 2.25 | 1000  | 22    | TO-200AD  |
| HT1700-55 | 1700A  | 5500V | 20                 | ≤ 200mA               | 1500     | 2.10 | 1200  | 50    | TO-200AE1 |

# Power Thyristors



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## High Voltage Thyristors - Capsule Type

| Type      | IF(AV) | VRRM  | IFSM<br>@TVJM&10ms | IRRM(max)<br>Tj=125°C | VTM(max) |      | dV/dT | F±10% | Outline   |
|-----------|--------|-------|--------------------|-----------------------|----------|------|-------|-------|-----------|
|           |        |       |                    |                       | ITM      | VTM  |       |       |           |
|           | A      | V     | KA                 | mA                    | A        | V    | V/μS  | KN    |           |
| HT2200-55 | 2200A  | 5500V | 38                 | ≤ 200mA               | 1600     | 2.00 | 1500  | 70    | TO-200AE2 |
| HT2800-55 | 2800A  | 5500V | 50                 | ≤ 200mA               | 3000     | 2.20 | 2000  | 90    | TO-200AF  |
| HT500-60  | 500A   | 6000V | 5.5                | ≤ 200mA               | 500      | 2.50 | 800   | 8     | TO-200AC  |
| HT1000-60 | 1000A  | 6000V | 12                 | ≤ 200mA               | 1000     | 2.30 | 1000  | 22    | TO-200AD  |
| HT1700-60 | 1700A  | 6000V | 22                 | ≤ 200mA               | 1500     | 2.20 | 1200  | 50    | TO-200AE1 |
| HT2200-60 | 2200A  | 6000V | 32                 | ≤ 200mA               | 1600     | 2.10 | 1500  | 70    | TO-200AE2 |
| HT2800-60 | 2800A  | 6000V | 45                 | ≤ 200mA               | 3000     | 2.30 | 2000  | 90    | TO-200AF  |

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# Power Thyristors

## Asymmetric Thyristors - Capsule Type

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YZPST.



YZPST.



<https://www.yzpst.com/asymmetric-thyristor/56704605.html>

<https://www.yzpst.com/asymmetric-thyristor/56706004.html>

<https://www.yzpst.net/yzpst-a1237nc280-15893575613766740.html>

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# Power Thyristors

## Welding Thyristors - Capsule Type

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### Features:

- Center amplifying gate
- Metal case with ceramic insulator
- International standard case TO-200AB (A-PUK)
- Extended temperature range

### Typical Applications:

- DC motor controls
- Controlled DC power supplies
- AC controllers



<https://www.yzpst.com/phase-control-thyristor/55100785.html>

## Welding Thyristors - Capsule Type

Typical Applications:

Welding machine

| Type      | IT(AV) | VDRM/VRRM | ITSM@TVJM<br>&10ms | IDRM/IRRM(max)<br>Tj=125℃ | VTM(max) |      | Tvj | Rthjc | F±10% |
|-----------|--------|-----------|--------------------|---------------------------|----------|------|-----|-------|-------|
|           |        |           |                    |                           | ITM      | ITM  |     |       |       |
|           | A      | V         | KA                 | mA                        | A        | V    | ℃   | K/W   | KN    |
| PST C280  | 500    | 400-600   | 7200               | 75                        | 1000     | 1.35 | 125 | 0.17  | 5     |
| PST C380  | 960    | 400-600   | 12500              | 100                       | 2900     | 1.50 | 150 | 0.09  | 9     |
| PST C780  | 1350   | 400-600   | 24400              | 80                        | 3600     | 1.45 | 125 | 0.055 | 15    |
| PST C1280 | 2310   | 400-600   | 42500              | 80                        | 8000     | 1.55 | 125 | 0.025 | 26    |

## Fast Switching Thyristors - Stud Type

| Type  | IT(AV) | VTM/ITM |      | VDRM<br>VRRM | IDRM<br>IRRM | IGT | VGT | tq | di/dt | dv/dt | Tjm | F    |
|-------|--------|---------|------|--------------|--------------|-----|-----|----|-------|-------|-----|------|
|       | A      | V/A     |      | V            | mA           | mA  | V   | μs | A/μs  | V/μs  | C   |      |
| KK5   | 5      | 2.6     | 15   | 300-1400     | 5            | 100 | 2.0 | 20 |       |       | 125 | 2Nm  |
| KK20  | 20     | 2.6     | 60   | 300-1400     | 10           | 100 | 2.0 | 20 |       |       | 125 | 10Nm |
| KK50  | 50     | 2.6     | 150  | 300-1400     | 15           | 100 | 2.0 | 20 |       |       | 125 | 16Nm |
| KK100 | 100    | 3.0     | 300  | 300-2000     | 20           | 200 | 2.5 | 30 | 100   | 500   | 125 | 33Nm |
| KK200 | 200    | 3.0     | 600  | 300-2000     | 25           | 200 | 2.5 | 30 | 100   | 500   | 125 | 4KN  |
| KK300 | 300    | 3.0     | 900  | 300-2000     | 30           | 200 | 2.5 | 30 | 100   | 500   | 125 | 7KN  |
| KK500 | 500    | 3.2     | 1500 | 300-2000     | 45           | 300 | 3.0 | 50 | 200   | 500   | 125 | 10KN |

# Power Thyristors

## Bi-Directional Thyristors - Capsule Type

### 1. 1.5~5 英寸双向可控硅分解图

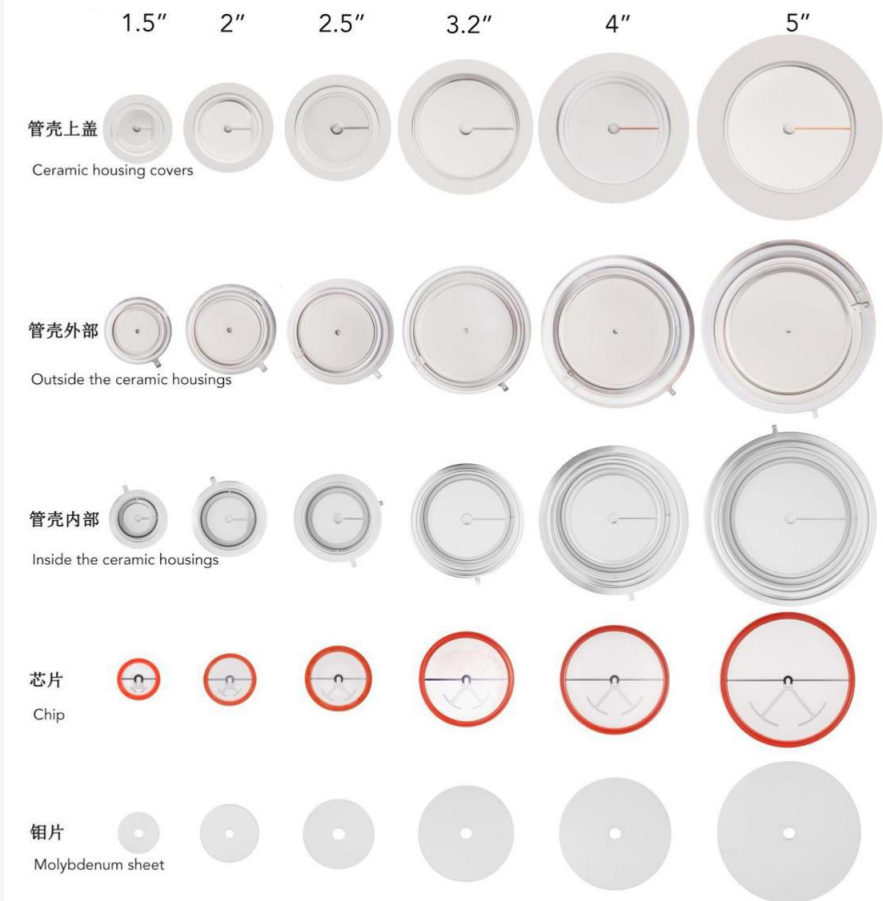
### 1.5"~5" bi-directional-control-thyristor exploded view

概述：双向可控硅适用于额定电压1~15kV的电动机软启动和停止的控制保护。该装置广泛用于大型钢铁, 石油, 化工, 消防, 矿山, 污水处理, 电力等多个工作领域, 能够很好的与电动机拖动设备(如: 水泵、风机、压缩机、粉碎机、搅拌机、皮带机等)配套使用。

Overview: Bi-directional-control-thyristor are suitable for the control and protection of soft start and stop of motors with a rated voltage of 1~15kV. The device is widely used in large-scale steel, petroleum, chemical, fire fighting, mining, sewage treatment, electric power and other work fields. It can be well connected with electric motors to drive equipment (such as: water pumps, fans, compressors, crushers, mixers, Belt conveyor, etc.).

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# Power Thyristors

## Bi-Directional Thyristors - Capsule Type

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### 2. 双向管壳内部外部细节图

Internal and external details of the Bi-Directional-  
Control-Thyristor ceramic housings



### 3. 成品图(带/不带引线)

Finished devices  
without and with lead



<https://www.yzpst.net/3300v-bi-directional-control-thyristor-skp24f33q-16136377168901286.html>

# Power Thyristors

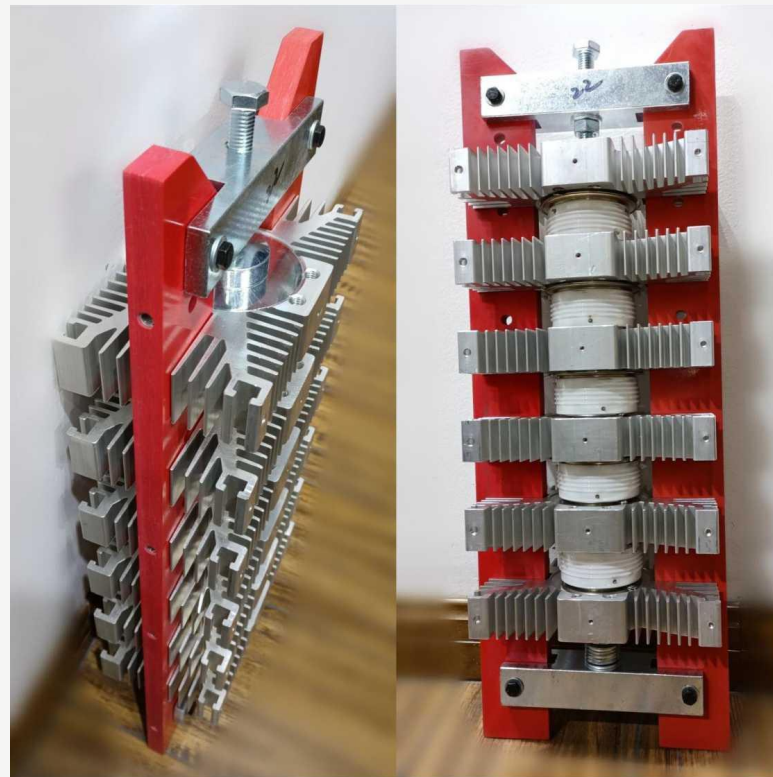
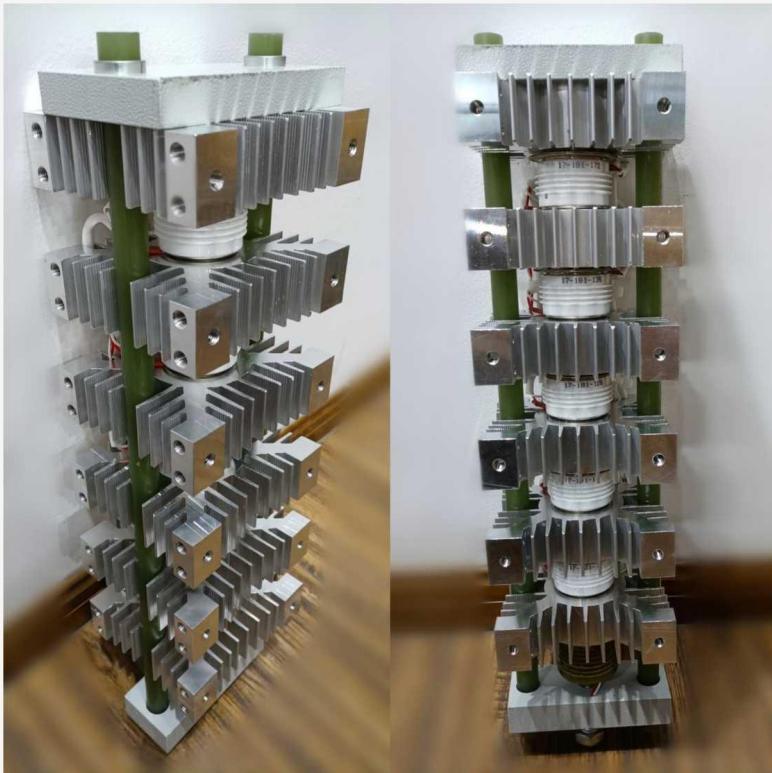
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## Bi-Directional Thyristors - Assembly

### 4. 双向可控硅组件图

Bi-directional-control-thyristor component assembly diagram



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# YZPST Products

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## Power Diodes

# Power Diodes

## Brief



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- Power Diodes are ideally suited to line frequency applications including input rectifiers for variable speed drives, traction converters, trackside substations, welding and DC power supplies. Featuring compression bonded, alloyed Silicon wafer construction, these devices feature low thermal impedance and high overload capacity and are designed to survive even the most arduous applications.
- Plastic sealed high voltage diode is mainly used in medical machines, X-ray, CT, etc.
- Semiconductor Stud devices is mainly used in induction heating furnace, welding machine and other aspects.

# Power Diodes

## High Voltage Diodes - Capsule Type

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### Unique Process for the passivation.

- All Diffused Structure
- High Surge rating
- Blocking capability up to 6000 volts
- Soft Reverse Recovery
- Rugged Ceramic Hermetic Package
- Pressure Assembled Device

Devices with blocking voltages from 400V up to 6kV are available making them ideal for applications with line voltages up to 2kV. Optimized to offer low conduction losses, these devices are ideally suited to line frequency applications including input rectifiers for variable speed drives, traction converters, trackside substations, welding and DC power supplies. Featuring compression bonded, alloyed Silicon wafer construction, these devices feature low thermal impedance and high overload capacity and are designed to survive even the most arduous applications.



<https://www.yzpst.com/rectifier-diode-standard-diode/57014160.html>



<https://www.yzpst.com/rectifier-diode-standard-diode/55101143.html>

## High Voltage Diodes - Capsule Type

| Type      | IF(AV) | VRRM  | IFSM@TVJM<br>&10ms | IRRM(max)<br>Tj=125℃ | VFM(max) |      | F±10% | Outline   |
|-----------|--------|-------|--------------------|----------------------|----------|------|-------|-----------|
|           |        |       |                    |                      | ITM      | VTM  |       |           |
|           | A      | V     | KA                 | mA                   | A        | V    | KN    |           |
| HD500-40  | 500A   | 4000V | 9.2                | ≤150mA               | 2400     | 2.40 | 15    | TO        |
| HD1200-40 | 1200A  | 4000V | 18                 | ≤150mA               | 3000     | 1.96 | 24    | TO-200AD  |
| HD1800-40 | 1800A  | 4000V | 30                 | ≤150mA               | 5000     | 1.95 | 30    | TO-200AE1 |
| HD2500-40 | 2500A  | 4000V | 58                 | ≤150mA               | 5000     | 1.70 | 70    | TO-200AE2 |
| HD3000-40 | 3000A  | 4000V | 83                 | ≤150mA               | 4000     | 1.10 | 90    | TO-200AF  |
| HD500-45  | 500A   | 4500V | 8.5                | ≤150mA               | 2400     | 2.50 | 15    | TO-200AC  |
| HD1200-45 | 1200A  | 4500V | 15.5               | ≤150mA               | 3000     | 2.48 | 24    | TO-200AD  |
| HD1800-45 | 1800A  | 4500V | 28                 | ≤150mA               | 5000     | 2.30 | 30    | TO-200AE1 |
| HD2500-45 | 2500A  | 4500V | 56                 | ≤150mA               | 5000     | 1.80 | 70    | TO-200AE2 |

## High Voltage Diodes - Capsule Type

| Type      | IF(AV) | VRRM  | IFSM@TVJM<br>&10ms | IRRM(max)<br>Tj=125°C | VFM(max) |      | F±10% | Outline   |
|-----------|--------|-------|--------------------|-----------------------|----------|------|-------|-----------|
|           |        |       |                    |                       | ITM      | VTM  |       |           |
|           | A      | V     | KA                 | mA                    | A        | V    | KN    |           |
| HD3000-45 | 3000A  | 4500V | 76                 | ≤150mA                | 4000     | 1.25 | 90    | TO-200AF  |
| HD500-50  | 500A   | 5000V | 8.2                | ≤200mA                | 2400     | 2.60 | 15    | TO-200AC  |
| HD1200-50 | 1200A  | 5000V | 14                 | ≤200mA                | 3000     | 2.62 | 24    | TO-200AD  |
| HD1800-50 | 1800A  | 5000V | 28                 | ≤200mA                | 5000     | 2.50 | 30    | TO-200AE1 |
| HD2500-50 | 2500A  | 5000V | 52                 | ≤200mA                | 5000     | 1.90 | 70    | TO-200AE2 |
| HD3000-50 | 3000A  | 5000V | 70                 | ≤200mA                | 4000     | 1.35 | 90    | TO-200AF  |
| HD500-55  | 500A   | 5500V | 7.8                | ≤200mA                | 2400     | 2.60 | 15    | TO-200AC  |
| HD1200-55 | 1200A  | 5500V | 12                 | ≤200mA                | 3000     | 2.70 | 24    | TO-200AD  |

## High Voltage Diodes - Capsule Type

| Type      | IF(AV) | VRRM  | IFSM@TVJM<br>&10ms | IRRM(max)<br>Tj=125°C | VFM(max) |      | F±10% | Outline   |
|-----------|--------|-------|--------------------|-----------------------|----------|------|-------|-----------|
|           | A      | V     | KA                 | mA                    | ITM      | VTM  |       |           |
|           | A      | V     | KA                 | mA                    | A        | V    | KN    |           |
| HD1800-55 | 1800A  | 5500V | 26                 | ≤200mA                | 5000     | 2.70 | 30    | TO-200AE1 |
| HD2500-55 | 2500A  | 5500V | 41                 | ≤200mA                | 5000     | 2.10 | 70    | TO-200AE2 |
| HD3000-55 | 3000A  | 5500V | 66                 | ≤200mA                | 4000     | 1.50 | 90    | TO-200AF  |
| HD500-60  | 500A   | 6000V | 7                  | ≤200mA                | 2400     | 2.70 | 15    | TO-200AC  |
| HD1200-60 | 1200A  | 6000V | 10                 | ≤200mA                | 3000     | 2.75 | 24    | TO-200AD  |
| HD1800-60 | 1800A  | 6000V | 26                 | ≤200mA                | 3000     | 2.70 | 30    | TO-200AE1 |
| HD2500-60 | 2500A  | 6000V | 35                 | ≤200mA                | 5000     | 2.30 | 70    | TO-200AE2 |
| HD3000-60 | 3000A  | 6000V | 60                 | ≤200mA                | 4000     | 1.70 | 90    | TO-200AF  |

# Power Diodes

## Rectifier Diodes - Stud Type

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<https://www.yzpst.net/yzpst-95hf80-15964406796688265.html>



<https://www.yzpst.net/yzpst-d860-18c-15893404963120445.html>



<https://www.yzpst.com/productimage/57048153.html>

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## Rectifier Diodes - Stud Type

| Type  | IF(AV) | VFM/IFM |      | VRRM     | IRRM | TJM | F    |
|-------|--------|---------|------|----------|------|-----|------|
|       | A      | V/A     |      | V        | mA   | C   |      |
| ZP5   | 5      | 1.6     | 15   | 100-2000 | 5    | 150 | 2Nm  |
| ZP20  | 20     | 1.6     | 60   | 100-2000 | 10   | 150 | 10Nm |
| ZP50  | 50     | 1.8     | 150  | 100-2000 | 15   | 150 | 16Nm |
| ZP100 | 100    | 2.4     | 300  | 100-2200 | 20   | 150 | 33Nm |
| ZP200 | 200    | 2.4     | 600  | 100-2200 | 25   | 150 | 4KN  |
| ZP300 | 300    | 2.4     | 900  | 100-2200 | 30   | 150 | 7KN  |
| ZP500 | 500    | 2.4     | 1500 | 100-2200 | 45   | 150 | 10KN |

# Power Diodes

## More Diodes - Stud Type

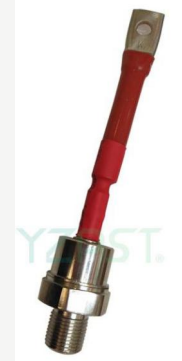
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<https://www.yzpst.com/standard-recovery-stud-diode/57051754.html>

**Rotating Diodes - Stud Type**



<https://www.yzpst.com/standard-recovery-stud-diode/57042103.html>

**Avalanche Diodes - Stud Type**



<https://www.yzpst.com/standard-recovery-stud-diode/57602490.html>

**Schottky Diodes - Stud Type**



<https://www.yzpst.com/standard-recovery-stud-diode/57056102.html>

**Rotary Diodes - Stud Type**

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# Power Diodes

## Fast Recovery Diodes - Capsule Type



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### Features:

- All Diffused Structure
- Fast Switching Performance
- Blocking capability up to 2500 volts
- Soft Reverse Recovery
- Rugged Ceramic Hermetic Package
- Pressure Assembled Device

Fast Recovery Diodes are an essential partner to all fast switching devices.

Our soft recovery diodes are available with a range of reverse recovery characteristics tailored to meet the requirements of both freewheeling and snubber applications.



<https://www.yzpst.net/yzpst-m2639zc450-15880437993955721.html>



<https://www.yzpst.com/fast-recovery-diode/55100837.html>

## Fast Recovery Diodes - Capsule Type

| Type    | IF(AV) | VRRM      | IFSM@TVJM<br>&10ms | IRRM(max)<br>Tj=125℃ | VFM(max) |      | Trr(max) | Tvj | Rthjc | F±10% |
|---------|--------|-----------|--------------------|----------------------|----------|------|----------|-----|-------|-------|
|         | A      | V         | KA                 | mA                   | IFM(A)   | V    | μs       | ℃   | K/W   | KN    |
| PSTA337 | 650    | 500-1500  | 10                 | 40                   | 2000     | 1.9  | 4.0      | 125 | 0.045 | 3.6   |
| PSTA596 | 750    | 700-1600  | 13                 | 50                   | 3500     | 2.3  | 4.0      | 150 | 0.06  | 9.8   |
| PSTA696 | 1000   | 2000-2600 | 14                 | 100                  | 100      | 1.9  | 5.0      | 150 | 0.04  | 15    |
| PSTA796 | 925    | 1500-2500 | 13.8               | 75                   | 1000     | 1.75 | 3.5      | 125 | 0.02  | 25    |

# Power Diodes

## Fast Recovery Rectifier - Stud Type

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<https://www.yzpst.com/fast-recovery-stud-diode/55099670.html>



<https://www.yzpst.com/fast-recovery-stud-diode/55101231.html>

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## Fast Recovery Rectifier - Stud Type

| Type  | IT(AV) | VTM/ITM |      | VRRM     | IRRM | trr | Tjm | F    |
|-------|--------|---------|------|----------|------|-----|-----|------|
|       | A      | V/A     |      | V        | mA   | μs  | C   |      |
| ZK5   | 5      | 2.0     | 15   | 100-2000 | 5    | 1.0 | 150 | 2 Nm |
| ZK20  | 20     | 2.0     | 60   | 100-2000 | 10   | 1.0 | 150 | 10Nm |
| ZK50  | 50     | 2.0     | 150  | 100-2000 | 15   | 1.5 | 150 | 16Nm |
| ZK100 | 100    | 2.2     | 300  | 100-2400 | 20   | 3.0 | 150 | 33Nm |
| ZK200 | 200    | 2.2     | 600  | 100-2400 | 25   | 3.0 | 150 | 4 KN |
| ZK300 | 300    | 2.2     | 900  | 100-2400 | 30   | 3.0 | 150 | 7 KN |
| ZK500 | 500    | 2.2     | 1500 | 100-2400 | 45   | 5.0 | 150 | 10KN |

# Power Diodes



YANGZHOU POSITIONING TECH. CO., LTD

## Fast Recovery Diode (FRD)

### Remark:

- Trr Test condition IF=0.5A IR=1A Irr=0.25A TC=25P
- Nonrepetitive Peak Surge Current for Per Diode (Halfwave 1 Phase 60Hz)

| Series | Part No.            | VRRM(V) | IFAV(A) | Trr ( ns) <sup>11</sup> | VF(V) | IFSM(A) <sup>21</sup> | Package             |
|--------|---------------------|---------|---------|-------------------------|-------|-----------------------|---------------------|
| 1      | YZPST-PC8U40AS      | 400     | 8       | 21                      | 1.2   | 80                    | TO-220C-2           |
| 2      | YZPST-PC10U40AS     | 400     | 10      | 22                      | 1.2   | 100                   | TO-220C-2           |
| 3      | YZPST-FC/PC20U40ASD | 400     | 20      | 22                      | 1.2   | 100                   | TO-220F-3,TO-220C-3 |
| 4      | YZPST-AC60U40AS     | 400     | 60      | 36                      | 1.3   | 600                   | TO-3P-2             |
| 5      | YZPST-PC8U60AS      | 600     | 8       | 30                      | 1.3   | 80                    | TO-220C-2           |
| 6      | YZPST-PC8H60AS      | 600     | 8       | 16                      | 1.8   | 80                    | TO-220C-2           |
| 7      | YZPST-PC10U60AS     | 600     | 10      | 27                      | 1.3   | 110                   | TO-220C-2           |
| 8      | YZPST-PC10H60AS     | 600     | 10      | 17                      | 1.8   | 110                   | TO-220C-2           |
| 9      | YZPST-PC15U60AS     | 600     | 15      | 30                      | 1.3   | 150                   | TO-220C-2           |
| 10     | YZPST-PC15H60AS     | 600     | 15      | 22                      | 1.8   | 150                   | TO-220C-2           |
| 11     | YZPST-PC16U60ASD    | 600     | 8*2     | 30                      | 1.3   | 80                    | TO-220C-3           |
| 12     | YZPST-PC20U60ASD    | 600     | 10*2    | 30                      | 1.3   | 110                   | TO-220C-3           |
| 13     | YZPST-AC30U60ASD    | 600     | 15*2    | 33                      | 1.3   | 150                   | TO-3P-3             |
| 14     | YZPST-AC30U60AS     | 600     | 30      | 35                      | 1.3   | 300                   | TO-3P-2             |
| 15     | YZPST-PC30H60AS     | 600     | 30      | 25                      | 1.8   | 300                   | TO-220C-2           |
| 16     | YZPST-AC60U60ASD    | 600     | 30*2    | 32                      | 1.7   | 300                   | TO-3P-3             |
| 17     | YZPST-HC60H60AS     | 600     | 60      | 47                      | 1.8   | 600                   | TO-247              |
| 18     | YZPST-HC75H60AS     | 600     | 75      | 38                      | 1.8   | 750                   | TO-247              |
| 19     | YZPST-HC75U60AS     | 600     | 75      | 50                      | 1.6   | 750                   | TO-247              |
| 20     | YZPST-PC8U120AS     | 1200    | 8       | 43                      | 2     | 80                    | TO-220C-2           |
| 21     | YZPST-PC8Q120AS     | 1200    | 8       | 23                      | 2.8   | 80                    | TO-220C-2           |
| 22     | YZPST-PC15U120AS    | 1200    | 15      | 39                      | 2     | 200                   | TO-220C-2           |
| 23     | YZPST-AC30U120AS    | 1200    | 30      | 46                      | 2     | 300                   | TO-3P-2             |
| 24     | YZPST-PC30Q120AS    | 1200    | 30      | 32                      | 2.8   | 300                   | TO-220C-2           |
| 25     | YZPST-AC30U120ASD   | 1200    | 15*2    | 35                      | 2     | 200                   | TO-3P-3             |
| 26     | YZPST-AC60U120AS    | 1200    | 60      | 45                      | 2     | 500                   | TO-3P-2             |
| 27     | YZPST-HC60Q120AS    | 1200    | 60      | 60                      | 2.8   | 500                   | TO-247              |

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## Standard Diodes with high junction temperature - Capsule Type

### General purpose high power standard rectifier

- All Diffused Structure
- High Surge rating
- Blocking capability up to 4500 volts
- Soft Reverse Recovery
- Rugged Ceramic Hermetic Package
- Pressure Assembled Device

These devices are ideally suited to line frequency applications including input rectifiers for variable speed drives, traction converters, trackside substations, welding and DC power supplies. Featuring compression bonded, alloyed Silicon wafer construction, these devices feature low thermal impedance and high overload capacity and are designed to survive even the most arduous applications.



<https://www.yzpst.net/yzpst-drd5940h55-15893408934059709.html>



<https://www.yzpst.net/yzpst-zp8000a-1200v-15893411288982733.html>

## Standard Diodes with high junction temperature - Capsule Type

| Type    | IF(AV) | IFSM@TVJM<br>&10ms | VRRM      | IRRM(max)<br>Tj=125°C | VFM(max) |        |        | Tvj | Rthjc | F±10% |
|---------|--------|--------------------|-----------|-----------------------|----------|--------|--------|-----|-------|-------|
|         | A      | KA                 | V         | mA                    | IFM(A)   | IFM(A) | Tj(°C) | °C  | K/W   | KN    |
| PSTA640 | 1500   | 16                 | 1200-2200 | 35                    | 1.09     | 1000   | 25     | 185 | 0.04  | 15    |
| PSTA641 | 1500   | 15                 | 1800-2600 | 70                    | 1.09     | 1000   | 25     | 185 | 0.04  | 15    |
| PSTA643 | 1000   | 10                 | 3600-4600 | 50                    | 1.40     | 1000   | 160    | 170 | 0.04  | 15    |
| PSTA740 | 2400   | 30                 | 1400-2000 | 50                    | 0.86     | 1000   | 160    | 185 | 0.02  | 25    |
| PSTA750 | 1800   | 22                 | 2400-3200 | 50                    | 0.96     | 1000   | 160    | 175 | 0.02  | 25    |
| PSTA780 | 1500   | 18                 | 3500-4600 | 50                    | 1.15     | 1000   | 160    | 170 | 0.02  | 25    |
| PSTA800 | 4400   | 63                 | 1800-2600 | 100                   | 0.865    | 2000   | 160    | 185 | 0.01  | 36    |
| PSTA801 | 3900   | 57                 | 2800-3200 | 100                   | 1.05     | 2000   | 150    | 175 | 0.01  | 36    |
| PSTA880 | 2900   | 36                 | 3600-4500 | 100                   | 1.15     | 2000   | 160    | 170 | 0.01  | 36    |

# Power Diodes



YANGZHOU POSITIONING TECH. CO., LTD

## Welding Diodes - Capsule Type

### Features:

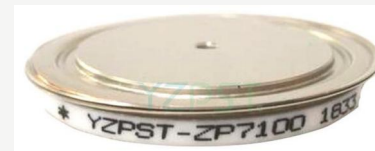
- All Diffused Structure
- High current density
- Very low on-state voltage drop
- Metal case with ceramic insulator
- Ultra-low thermal resistance

### Typical Applications:

Welding machine



<https://www.yzpst.net/yzpst-zp508lts06-8mm-15900410285386822.html>



<https://www.yzpst.com/welding-diode/56471566.html>

### Electrical Characteristics:

| Type       | IF(AV)<br>@TC=85<br>°C | VRRM    | IRRM (max)<br>7 &Tj=Tjmax | V(TO)Tjmax | RT<br>Tjmax | Tjmax | Rthjc | F±10% |
|------------|------------------------|---------|---------------------------|------------|-------------|-------|-------|-------|
|            | A                      | V       | mA                        | V          | mΩ          | °C    | K/W   | KN    |
| PST6000N40 | 7100                   | 200-600 | 50                        | 0.70       | 0.029       | 170   | 0.01  | 28    |

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## Welding Diodes - ZE Welding Diodes For Resistance Welding



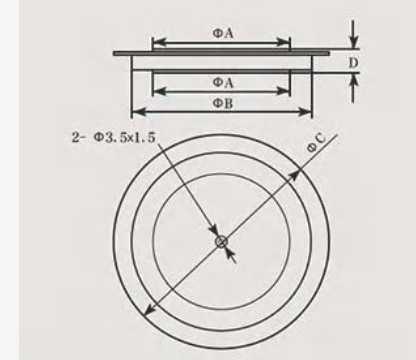
- Optimized for high current rectifiers
- Very low threshold voltage and slope resistance
- Very low thermal resistance

### Features:

- Direct Paralleling
- Direct apply 1K/2K/5K/10KHz vary by different model
- Ultra Low Power Consumption

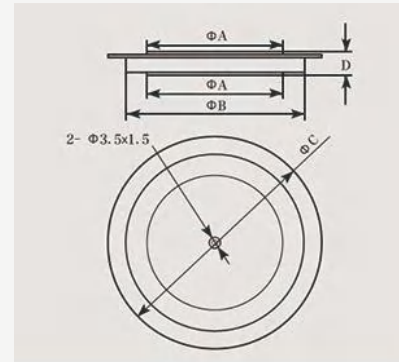
## Welding Diodes - ZE Welding Diodes For Resistance Welder data sheet (housing package)

| Type           | IFAVM@<br>TC=85℃ | VRRM    | IFSM@<br>Tjm&10ms | VFM'@<br>IFM&TC=25℃ |       | VFO@ Tjm | r F@ Tjm | Qr   | Tjm | Rth (j-c) | F     | Outline    |
|----------------|------------------|---------|-------------------|---------------------|-------|----------|----------|------|-----|-----------|-------|------------|
|                | A                | VRRM    | KA                | V                   | A     | V        | MΩ       | μC   | ℃   | K/W       | KN    |            |
| <u>ZE7100</u>  | 7100             | 200/400 | 55                | 1.05                | 5000  | 0.74     | 0.025    | ≤400 | 175 | 10        | 20-40 | <u>I</u>   |
| <u>ZE12000</u> | 12000            | 200/400 | 85                | 1.02                | 8000  | 0.75     | 0.019    |      | 175 | 6         | 35-65 | <u>II</u>  |
| <u>ZE16000</u> | 16000            | 200/400 | 120               | 1.1                 | 12000 | 0.75     | 0.017    |      | 175 | 4         | 70-90 | <u>III</u> |

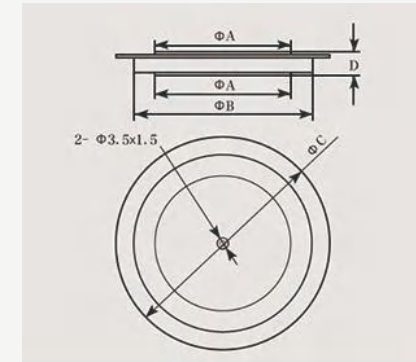


I

| Size       | Type    | A(mm) | B(mm) | C(mm) | D±0.1(mm) | Wt(g) |
|------------|---------|-------|-------|-------|-----------|-------|
| <u>I</u>   | ZE7100  | 44    | 57    | 60    | 8         | 140   |
| <u>II</u>  | ZE12000 | 57    | 71    | 75    | 8         | 220   |
| <u>III</u> | ZE16000 | 68    | 90    | 100   | 13        | 540   |



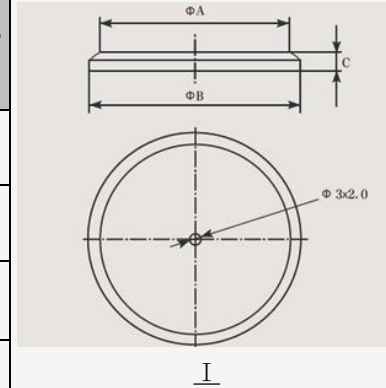
II



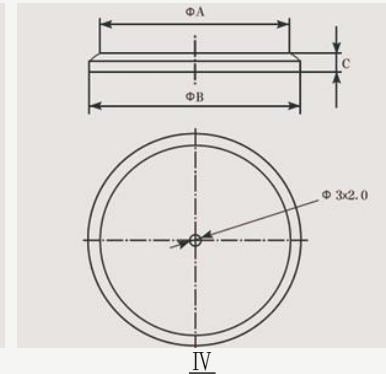
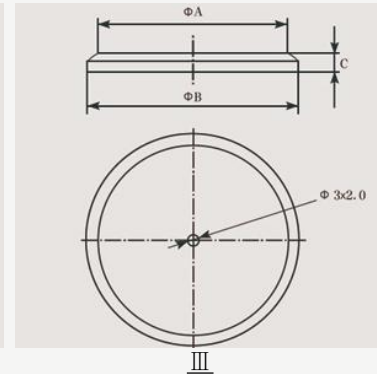
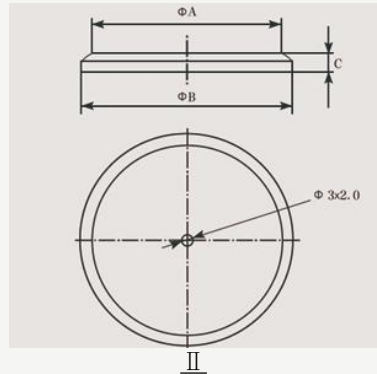
III

## Welding Diodes - ZE Welding Diodes For Resistance Welder data sheet (housingless package)

| Type                    | IFAVM@<br>TC=85°C | VRRM    | IFSM@<br>Tjm&10ms | VFM'@<br>IFM&TC=25°C |       | VFO@ Tjm | r F@ Tjm | Qr   | Tjm | Rth (j-c) | F    | Outline    |
|-------------------------|-------------------|---------|-------------------|----------------------|-------|----------|----------|------|-----|-----------|------|------------|
|                         | A                 | VRRM    | KA                | V                    | A     | V        | MΩ       | μC   | °C  | K/W       | KN   |            |
| <a href="#">ZE9200</a>  | 9200              | 200/400 | 60                | 1.05                 | 8000  | 0.78     | 0.031    | ≤300 | 175 | 5.6       | 40   | <u>I</u>   |
| <a href="#">ZE10500</a> | 10500             | 200/400 | 70                | 1.05                 | 8000  | 0.81     | 0.026    |      | 175 | 5         | 40   | <u>II</u>  |
| <a href="#">ZE13500</a> | 13500             | 200/400 | 85                | 0.97                 | 10000 | 0.6      | 0.021    |      | 175 | 4.7       | 67.5 | <u>III</u> |
| <a href="#">ZE18000</a> | 18000             | 200/400 | 120               | 1.1                  | 12000 | 0.75     | 0.017    |      | 175 | 4         | 80   | <u>IV</u>  |



| Size       | Type    | A(mm) | B(mm) | C(mm) | Wt(g) |
|------------|---------|-------|-------|-------|-------|
| <u>I</u>   | ZE9200  | 47    | 53    | 5     | 100   |
| <u>II</u>  | ZE10500 | 50    | 56    | 5     | 110   |
| <u>III</u> | ZE13500 | 58    | 65    | 5     | 155   |
| <u>IV</u>  | ZE18000 | 68    | 75    | 5     | 210   |



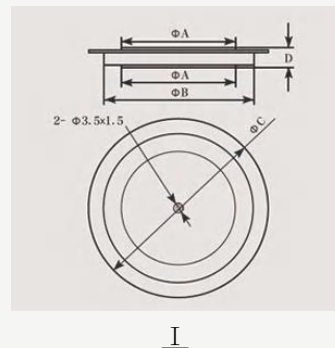
# Power Diodes

YZPST

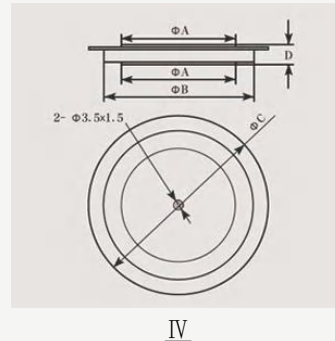
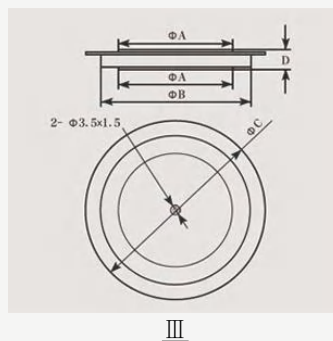
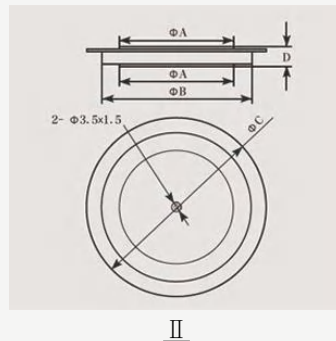
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## Welding Diodes - ZE Welding Diodes For High Frequency Resistance Welder data sheet (housing package)

| Type              | IFAVM@<br>TC=85°C | VRRM    | IFSM@<br>Tjm&10ms | VFM'@<br>IFM&TC=25°C |      | VFO@<br>Tjm | r F@ Tjm | Qr   | Tjm | Rth ( j-c ) | F  | Outline    |
|-------------------|-------------------|---------|-------------------|----------------------|------|-------------|----------|------|-----|-------------|----|------------|
|                   | A                 | VRRM    | KA                | V                    | A    | V           | MΩ       | μC   | °C  | K/W         | KN |            |
| <u>ZE5000F05</u>  | 5000              | 200/400 | 45                | 1.05                 | 5000 | 0.8         | 0.03     | ≤200 | 175 | 10          | 30 | <u>I</u>   |
| <u>ZE5000F10</u>  | 5000              | 200/400 | 45                | 1.1                  | 5000 | 0.82        | 0.032    | ≤100 | 175 | 10          | 30 | <u>II</u>  |
| <u>ZE10000F05</u> | 10000             | 200/400 | 70                | 1.1                  | 8000 | 0.79        | 0.026    | ≤200 | 175 | 6           | 50 | <u>III</u> |
| <u>ZE10000F10</u> | 10000             | 200/400 | 70                | 1.15                 | 8000 | 0.81        | 0.028    | ≤100 | 175 | 6           | 50 | <u>IV</u>  |



| Size       | Type       | A(mm) | B(mm) | C(mm) | D±0.1(mm) | Wt(g) |
|------------|------------|-------|-------|-------|-----------|-------|
| <u>I</u>   | ZE5000F05  | 44    | 57    | 60    | 8         | 140   |
| <u>II</u>  | ZE5000F10  | 44    | 57    | 60    | 8         | 140   |
| <u>III</u> | ZE10000F05 | 57    | 71    | 75    | 8         | 220   |
| <u>IV</u>  | ZE10000F10 | 57    | 71    | 75    | 8         | 220   |



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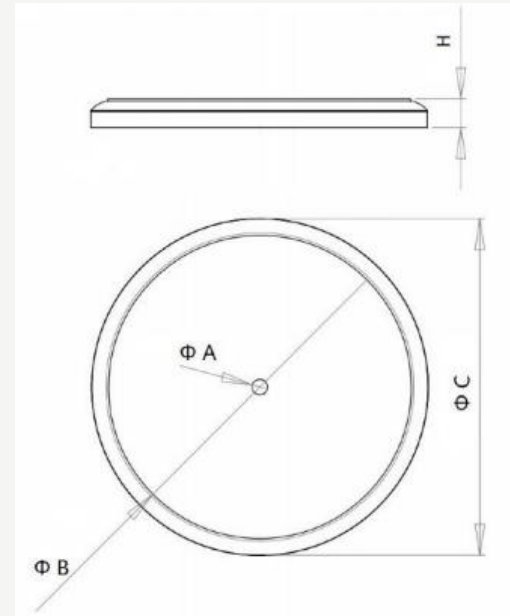
[info@yzpst.net](mailto:info@yzpst.net)

## Housingless Diodes - PST38DN06

| Symbol         | Characteristic                      | Conditions                                      | Tj[°C] | Value | Unit              |
|----------------|-------------------------------------|-------------------------------------------------|--------|-------|-------------------|
| BLOCKING       |                                     |                                                 |        |       |                   |
| VRRM           | Repetitive peak reverse voltage     |                                                 | 40     | 600   | V                 |
| VRSM           | Non-repetitive peak reverse voltage |                                                 | 40     | 600   | V                 |
| IRRM           | Repetitive peak reverse current     | V = VRRM                                        |        | ≤50   | mA                |
| CONDUCTING     |                                     |                                                 |        |       |                   |
| IF(AV)         | Mean forward current                | 180 sin, 50Hz,<br>TC=85 °C , double side cooled | 100    | 4550  | A                 |
| IFSM           | Surge forward current               | Sine wave, 10ms without reverse voltage         | 25     | 37.4  | kA                |
| I <sub>t</sub> | I <sub>t</sub>                      |                                                 |        | 7000  | kA <sup>2</sup> s |
| VFM            | Forward voltage                     | Forward current = 4500A                         | 180    | ≤0.99 | V                 |
| VF(TO)         | Threshold voltage                   |                                                 | 180    | 0.7   | V                 |
| rF             | Forward slope resistance            |                                                 | 180    | 0.064 | mohm              |

## Housingless Diodes - PST38DN06

| Symbol               | Characteristic                 | Conditions                               | Tj[°C] | Value           | Unit  |
|----------------------|--------------------------------|------------------------------------------|--------|-----------------|-------|
| SWITCHING            |                                |                                          |        |                 |       |
| t <sub>rr</sub>      | Reverse recovery time          |                                          | 180    |                 | μs    |
| Q <sub>rr</sub>      | Reverse recovery charge        |                                          |        |                 | μC    |
| I <sub>rr</sub>      | Peak reverse recovery current  |                                          |        |                 | A     |
| MOUNTING             |                                |                                          |        |                 |       |
| R <sub>th(j-h)</sub> | Thermal impedance, DC          | Junction to heatsink, double side cooled |        | ≤11             | °C/kW |
| R <sub>th(c-h)</sub> | Thermal impedance              | Case to heatsink, double side cooled     |        | ≤5              | °C/kW |
| T <sub>j</sub>       | Operating junction temperature |                                          |        | 40 °C ~ +180 °C | °C    |
| F                    | Mounting force                 |                                          |        | 20~30           | kN    |
|                      | Mass                           |                                          |        |                 | g     |



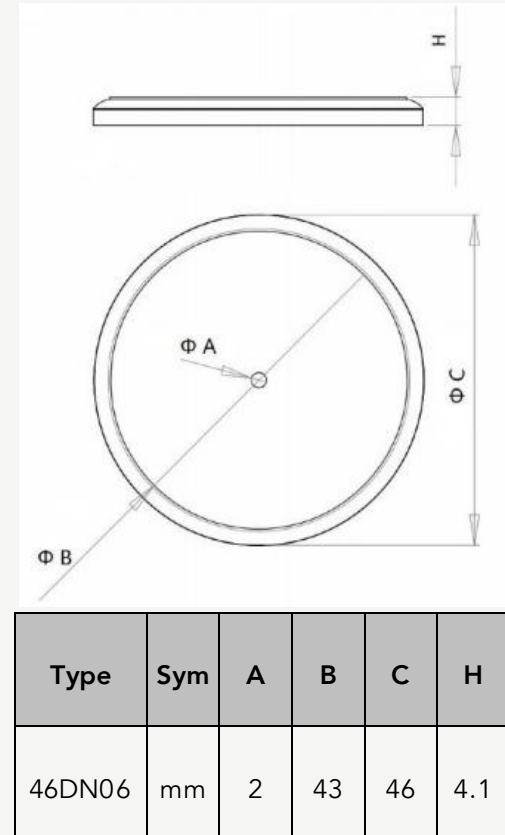
| Type   | Sym | A | B  | C  | H   |
|--------|-----|---|----|----|-----|
| 38DN06 | mm  | 2 | 34 | 38 | 4.1 |

## Housingless Diodes - PST46DN06

| Symbol          | Characteristic                      | Conditions                                       | Tj[°C] | Value | Unit              |
|-----------------|-------------------------------------|--------------------------------------------------|--------|-------|-------------------|
| BLOCKING        |                                     |                                                  |        |       |                   |
| VRRM            | Repetitive peak reverse voltage     |                                                  | 40     | 600   | V                 |
| VRSM            | Non-repetitive peak reverse voltage |                                                  | 40     | 600   | V                 |
| IRRM            | Repetitive peak reverse current     | V= VRRM                                          |        | ≤60   | mA                |
| CONDUCTING      |                                     |                                                  |        |       |                   |
| IF(AV)          | Mean forward current                | 180 sin, 50Hz, TC= 85 °C ,<br>double side cooled | 118    | 5100  | A                 |
| IFSM            | Surge forward current               | Sine wave, 10ms without reverse voltage          | 25     | 60    | kA                |
| I <sub>2t</sub> | I <sub>2t</sub>                     |                                                  |        | 18000 | kA <sup>2</sup> s |
| VFM             | Forward voltage                     | Forward current = 14000A                         | 180    | ≤1.36 | V                 |
| VF(TO)          | Threshold voltage                   |                                                  | 180    | 0.7   | V                 |
| rF              | Forward slope resistance            |                                                  | 180    | 0.047 | mohm              |

## Housingless Diodes - PST46DN06

| Symbol               | Characteristic                 | Conditions                               | Tj[°C] | Value           | Unit  |
|----------------------|--------------------------------|------------------------------------------|--------|-----------------|-------|
| SWITCHING            |                                |                                          |        |                 |       |
| t <sub>rr</sub>      | Reverse recovery time          |                                          | 180    |                 | μs    |
| Q <sub>rr</sub>      | Reverse recovery charge        |                                          |        |                 | μC    |
| I <sub>rr</sub>      | Peak reverse recovery current  |                                          |        |                 | A     |
| MOUNTING             |                                |                                          |        |                 |       |
| R <sub>th(j-h)</sub> | Thermal impedance, DC          | Junction to heatsink, double side cooled |        | ≤8.8            | °C/kW |
| R <sub>th(c-h)</sub> | Thermal impedance              | Case to heatsink, double side cooled     |        | ≤3              | °C/kW |
| T <sub>j</sub>       | Operating junction temperature |                                          |        | 40 °C ~ +180 °C | °C    |
| F                    | Mounting force                 |                                          |        | 30~45           | kN    |
|                      | Mass                           |                                          |        |                 | g     |



## Housingless Diodes - PST56DN06

| Symbol          | Characteristic                      | Conditions                                       | Tj[°C] | Value | Unit |
|-----------------|-------------------------------------|--------------------------------------------------|--------|-------|------|
| BLOCKING        |                                     |                                                  |        |       |      |
| VRRM            | Repetitive peak reverse voltage     |                                                  | 25     | 600   | V    |
| VRSM            | Non-repetitive peak reverse voltage |                                                  | 25     | 600   | V    |
| IRRM            | Repetitive peak reverse current     | V= VRRM                                          |        | ≤100  | mA   |
| CONDUCTING      |                                     |                                                  |        |       |      |
| IF(AV)          | Mean forward current                | 180 sin, 50Hz, TC= 85 °C ,<br>double side cooled | 126    | 6400  | A    |
| IFSM            | Surge forward current               | Sine wave, 10ms without reverse voltage          | 25     | 81    | kA   |
| I <sub>2t</sub> | I <sub>2t</sub>                     |                                                  |        | 32800 | kA²s |
| VFM             | Forward voltage                     | Forward current = 10000A                         | 180    | ≤1.15 | V    |
| VF(TO)          | Threshold voltage                   |                                                  | 180    | 0.7   | V    |
| rF              | Forward slope resistance            |                                                  | 180    | 0.04  | mohm |

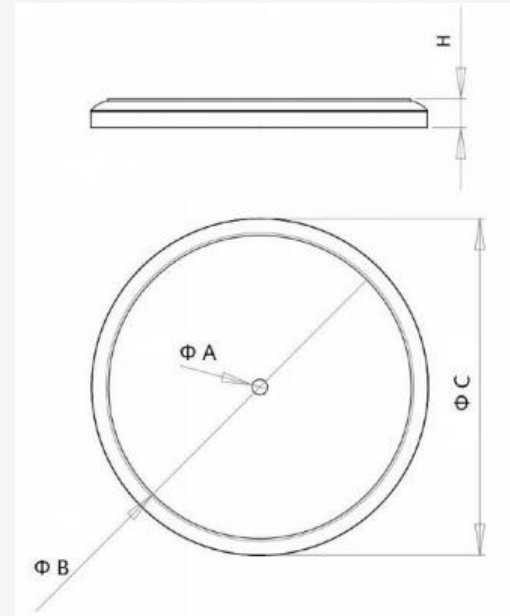
# Power Diodes

YZPST

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## Housingless Diodes - PST56DN06

| Symbol               | Characteristic                 | Conditions                               | Tj[°C] | Value           | Unit  |
|----------------------|--------------------------------|------------------------------------------|--------|-----------------|-------|
| SWITCHING            |                                |                                          |        |                 |       |
| t <sub>rr</sub>      | Reverse recovery time          |                                          | 180    |                 | μs    |
| Q <sub>rr</sub>      | Reverse recovery charge        |                                          |        |                 | μC    |
| I <sub>rr</sub>      | Peak reverse recovery current  |                                          |        |                 | A     |
| MOUNTING             |                                |                                          |        |                 |       |
| R <sub>th(j-h)</sub> | Thermal impedance, DC          | Junction to heatsink, double side cooled |        | ≤6.2            | °C/kW |
| R <sub>th(c-h)</sub> | Thermal impedance              | Case to heatsink, double side cooled     |        | ≤5.5            | °C/kW |
| T <sub>j</sub>       | Operating junction temperature |                                          |        | 40 °C ~ +180 °C | °C    |
| F                    | Mounting force                 |                                          |        | 40~60           | kN    |
|                      | Mass                           |                                          |        |                 | g     |



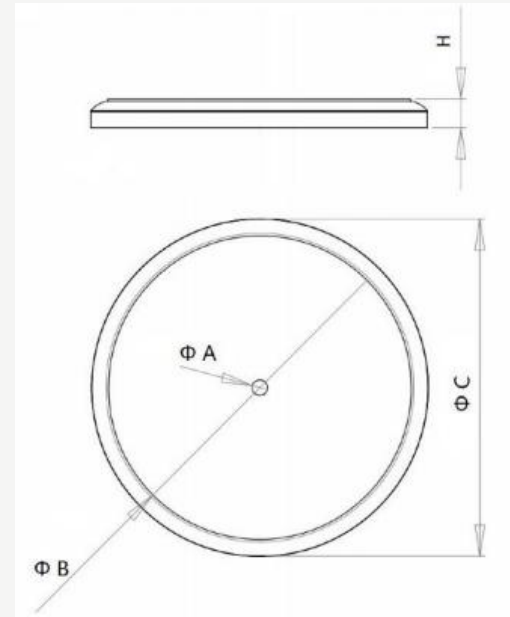
| Type   | Sym | A | B  | C  | H   |
|--------|-----|---|----|----|-----|
| 46DN06 | mm  | 2 | 50 | 56 | 5.1 |

## Housingless Diodes - PST63DN06

| Symbol          | Characteristic                      | Conditions                                       | Tj[°C] | Value | Unit              |
|-----------------|-------------------------------------|--------------------------------------------------|--------|-------|-------------------|
| BLOCKING        |                                     |                                                  |        |       |                   |
| VRRM            | Repetitive peak reverse voltage     |                                                  | 180    | 600   | V                 |
| VRSM            | Non-repetitive peak reverse voltage |                                                  | 180    | 600   | V                 |
| IRRM            | Repetitive peak reverse current     | V= VRRM                                          | 180    | ≤80   | mA                |
| CONDUCTING      |                                     |                                                  |        |       |                   |
| IF(AV)          | Mean forward current                | 180 sin, 50Hz, TC= 85 °C ,<br>double side cooled |        | 13000 | A                 |
| IFSM            | Surge forward current               | Sine wave, 10ms without reverse voltage          | 180    | 85    | kA                |
| I <sub>2t</sub> | I <sub>2t</sub>                     |                                                  |        | 35901 | kA <sup>2</sup> s |
| VFM             | Forward voltage                     | Forward current =                                | 25     | 0.93  | V                 |
| VF(TO)          | Threshold voltage                   |                                                  | 180    | 0.78  | V                 |
| rF              | Forward slope resistance            |                                                  | 180    | 0.021 | mohm              |

## Housingless Diodes - PST63DN06

| Symbol               | Characteristic                 | Conditions                               | Tj[°C] | Value | Unit  |
|----------------------|--------------------------------|------------------------------------------|--------|-------|-------|
| SWITCHING            |                                |                                          |        |       |       |
| t <sub>rr</sub>      | Reverse recovery time          |                                          | 180    |       | μs    |
| Q <sub>rr</sub>      | Reverse recovery charge        |                                          |        |       | μC    |
| I <sub>rr</sub>      | Peak reverse recovery current  |                                          |        |       | A     |
| MOUNTING             |                                |                                          |        |       |       |
| R <sub>th(j-h)</sub> | Thermal impedance, DC          | Junction to heatsink, double side cooled |        | 6.5   | °C/kW |
| R <sub>th(c-h)</sub> | Thermal impedance              | Case to heatsink, double side cooled     |        | 2.6   | °C/kW |
| T <sub>j</sub>       | Operating junction temperature |                                          |        | ~ +   | °C    |
| F                    | Mounting force                 |                                          |        | 35~70 | kN    |
|                      | Mass                           |                                          |        | 140   | g     |



| Type   | Sym | A | B  | C    | H |
|--------|-----|---|----|------|---|
| 63DN06 | mm  | 3 | 57 | 63.5 | 5 |

# Power Diodes

## High Voltage Diodes in Plastic Package

YZPST

YANGZHOU POSITIONING TECH. CO., LTD

YZPST-HV 5-10mA small current series

### Product Characteristics:

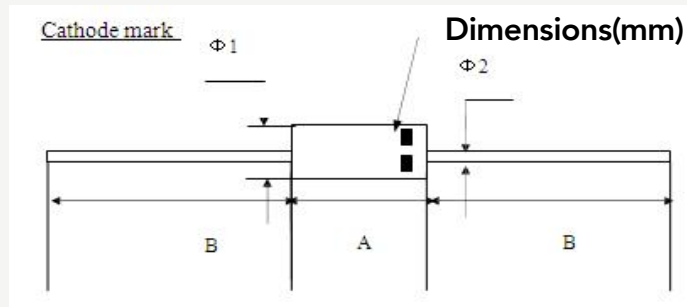
- High reliability
- Unique surge characteristics
- Fast recovery time : 80nS (Trr)
- Low forward voltage drop (Vf)
- Junction temperature : -40~+120°C
- Forward rectified current : 5~10mA, withstand voltage: 6-20kV

### Application:

- Copying machine, Air cleaner, Laser, Cathode ray monitor



<https://www.yzpst.com/plastic-package-diode/56745463.html>



| Type            | A   | B(min) | Φ1  | Φ2  |
|-----------------|-----|--------|-----|-----|
| JB04,JB08,2CL71 | 5   | 24     | 2   | 0.6 |
| 2CL69A,2CL71A   | 6.5 |        | 2.5 | 0.6 |
| 2CL69           | 8   |        | 3   | 0.6 |
| 2CL73,2CL74     | 10  |        | 3   | 0.6 |

## High Voltage Diodes in Plastic Package

### YZPST-HV 5-10mA small current series - Specifications

| Model      |        | The Corresponding Fuji Product Model<br>$V_{RRM}$ KV | Repetitive Peak Reverse Voltage<br>$V_{RRM}$ KV | Average Forward Rectified Current<br>$I_O$ mA | Maximum Forward Surge Current<br>$I_{FSM}$ A | Maximum Peak Forward Voltage<br>VFM V,<br>$I_{FM}=10mA$ | Maximum DC Reverse Current<br>$I_{R\mu A}$ |     | Maximum Reverse Recovery Time<br>$t_{rr}$ nS |
|------------|--------|------------------------------------------------------|-------------------------------------------------|-----------------------------------------------|----------------------------------------------|---------------------------------------------------------|--------------------------------------------|-----|----------------------------------------------|
| YZPST-HV04 | Jb04   | -                                                    | 4                                               | 10.0                                          | 0.5                                          | 10.0                                                    | 2.0                                        | 5.0 | 80                                           |
|            | 2CL69A |                                                      | 4                                               | 10.0                                          | 0.5                                          | 10.0                                                    | 2.0                                        | 5.0 | 80                                           |
|            | 2CL69  | ESJA54-04                                            | 4                                               | 10.0                                          | 0.5                                          | 10.0                                                    | 2.0                                        | 5.0 | 80                                           |
| YZPST-HV08 | JB04   | -                                                    | 8                                               | 10.0                                          | 0.5                                          | 13.0                                                    | 2.0                                        | 5.0 | 80                                           |
|            | 2CL71A | -                                                    | 8                                               | 10.0                                          | 0.5                                          | 13.0                                                    | 2.0                                        | 5.0 | 80                                           |
|            | 2CL71  | ESJA54-08                                            | 8                                               | 10.0                                          | 0.5                                          | 13.0                                                    | 2.0                                        | 5.0 | 80                                           |
| YZPST-HV12 | 2CL73  | ESJA52-12                                            | 12                                              | 5.0                                           | 0.5                                          | 20.0                                                    | 2.0                                        | 5.0 | 80                                           |
| YZPST-HV14 | 2CL74  | ESJA52-14                                            | 14                                              | 5.0                                           | 0.5                                          | 22.0                                                    | 2.0                                        | 5.0 | 80                                           |

# Power Diodes

## High Voltage Diodes in Plastic Package

YZPST

YANGZHOU POSITIONING TECH. CO., LTD

YZPST-HV 100-400mA series

### Product Characteristics:

- High junction temperature :  $-40^{\circ}\text{C}$ - $150^{\circ}\text{C}$
- Low forward conduction voltage and small leakage current
- Avalanche voltage breakdown protection
- Reverse recovery time ( $T_{rr}$ ): 70-100nS
- Excellent properties against HV surge impact
- Axial leading wires which are weldable
- Epoxy package with anti-corrosion properties on surface

### Application:

- High frequency and high voltage power supply rectifier;
- Industrial microwave power supplies;
- HF X ray source;
- Laser power supply;
- Voltage multiplying circuits
- Rectification of power supplies for other electronic devices



<https://www.yzpst.com/plastic-package-diode/56735821.html>



<https://www.yzpst.com/plastic-package-diode/56998934.html>

# Power Diodes

YZPST

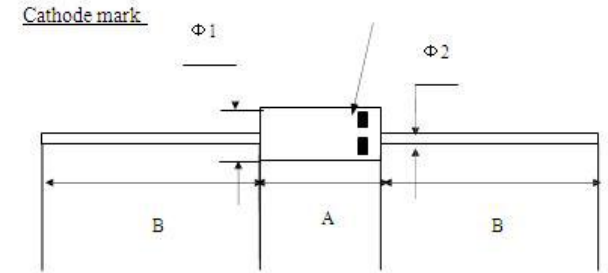
YANGZHOU POSITIONING TECH. CO., LTD

## High Voltage Diodes in Plastic Package

### YZPST-HV 100-400mA series - Specification

| Model    |        | Repetitive Peak Reverse Voltage<br>$V_{RRM}$ KV | Average Forward Rectified Current<br>$I_O$ mA | Maximum Forward Surge Current<br>$I_{FSM}$ A | Maximum Peak Forward Voltage<br>$V_{FM}$ V, | Maximum DC Reverse Current<br>$I_R$ $\mu$ A |                         | Maximum Reverse Recovery Time<br>$t_{rr}$ nS |
|----------|--------|-------------------------------------------------|-----------------------------------------------|----------------------------------------------|---------------------------------------------|---------------------------------------------|-------------------------|----------------------------------------------|
|          |        |                                                 |                                               |                                              |                                             | $T_a=25^\circ\text{C}$                      | $T_a=100^\circ\text{C}$ |                                              |
| YZPST-HV | 2CL2FK | 10                                              | 100                                           | 10                                           | 22.0                                        | 2.0                                         | 15                      | 100                                          |
|          | 2CL2FL | 15                                              | 100                                           | 10                                           | 26.0                                        | 2.0                                         | 15                      | 100                                          |
|          | 2CL2FM | 20                                              | 100                                           | 10                                           | 35.0                                        | 2.0                                         | 15                      | 100                                          |
|          | 37-08  | 8                                               | 400                                           | 30                                           | 18.0                                        | 5.0                                         | 50                      | 80                                           |
| YZPST-HV | 37-08F | 8                                               | 400                                           | 30                                           | 18.0                                        | 5.0                                         | 50                      | 70                                           |
|          | 37-10  | 10                                              | 350                                           | 20                                           | 20.0                                        | 5.0                                         | 50                      | 80                                           |
|          | 37-20  | 20                                              | 200                                           | 35                                           | 35.0                                        | 5.0                                         | 50                      | 100                                          |
|          | 37-20F | 20                                              | 200                                           | 35                                           | 35.0                                        | 5.0                                         | 50                      | 70                                           |

### Dimensions (mm)



| Type                   | A  | B(min) | $\Phi 1$ | $\Phi 2$ |
|------------------------|----|--------|----------|----------|
| 2CL2FK, 2CL2FL, 2CL2FM | 15 | 24     | 4.3      | 1.0      |
| 37-08, 37-08F, 37-10   | 10 |        | 3        | 0.6      |
| 37-20, 37-20F          | 15 |        | 4.3      | 1.0      |

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# Power Diodes

## High Voltage Diodes in Plastic Package

YZPST

YANGZHOU POSITIONING TECH. CO., LTD

YZPST-HV high current series

### Product Characteristics:

- High junction temperature:  $-40^{\circ}\text{C}$ - $150^{\circ}\text{C}$
- Low forward voltage drop, and small current leakage
- Avalanche breakdown protection
- Reverse recovery time ( $T_{rr}$ ) : 40-150nS
- Excellent properties against HV surge impact
- Axial leading wires which are weldable
- Epoxy package with anti-corrosion properties on surface

### Application:

- The microwave high power rectifier;
- Industrial microwave power supplies;
- HF X ray source;
- Laser power supply;
- Voltage multiplying circuits
- Rectification of power supplies for other electronic devices



<https://www.yzpst.com/plastic-package-diode/56997266.html>



<https://www.yzpst.com/plastic-package-diode/56733139.html>

# Power Diodes



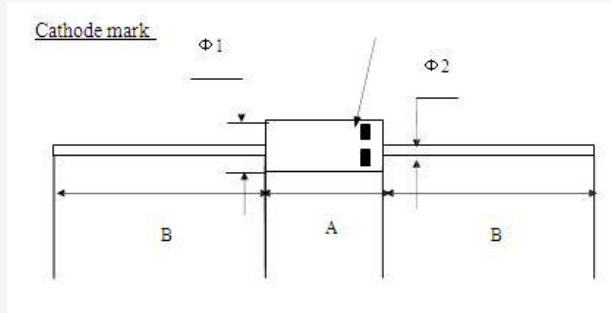
YANGZHOU POSITIONING TECH. CO., LTD

## High Voltage Diodes in Plastic Package

### YZPST-HV high current series - Specification

| Model    |        | Repetitive Peak Reverse Voltage $V_{RRM}$ KV | Average Forward Rectified Current $I_O$ mA | Maximum Forward Surge Current $I_{FSM}$ A | Maximum Peak Forward Voltage $V_{FM}$ V, | Maximum DC Reverse Current $I_R$ $\mu$ A |           | Maximum Reverse Recovery Time $t_{rr}$ nS |
|----------|--------|----------------------------------------------|--------------------------------------------|-------------------------------------------|------------------------------------------|------------------------------------------|-----------|-------------------------------------------|
|          |        |                                              |                                            |                                           |                                          | Ta=25 °C                                 | Ta=100 °C |                                           |
| YZPST-HV | 600S10 | 10                                           | 600                                        | 40                                        | 15.0                                     | 5.0                                      | 50        | -                                         |
|          | 600S12 | 12                                           | 600                                        | 40                                        | 18.0                                     | 5.0                                      | 50        | -                                         |
| YZPST-HV | FOB    | 9                                            | 500                                        | 40                                        | 13.8                                     | 5.0                                      | 50        | 40                                        |
| YZPST-HV | 104    | 12                                           | 350                                        | 30                                        | 15.0                                     | 5.0                                      | 50        | -                                         |
|          | 106    | 12                                           | 450                                        | 30                                        | 15.0                                     | 5.0                                      | 50        | -                                         |

### Dimensions (mm)



| Type                         | A  | B(min) | Φ1  | Φ2  |
|------------------------------|----|--------|-----|-----|
| 600S10, 600S12, YZPST-HV FOB | 22 | 20     | 7.5 | 1.2 |
| 104, 106                     |    |        |     |     |

# Power Diodes

## High Voltage Diodes in Plastic Package

YZPST

YANGZHOU POSITIONING TECH. CO., LTD

YZPST-HV HVR glass passivation chip series

### Product Characteristics:

- High junction temperature:  $-60^{\circ}\text{C}$ - $175^{\circ}\text{C}$
- Low forward voltage drop, and small current leakage
- Avalanche breakdown protection
- Reverse recovery time ( $T_{rr}$ ) less than 50nS
- Excellent properties against HV surge impact
- Axial leading wires which are weldable
- Use glass blunt chip and epoxy package with anti-corrosion properties on surface

### Application:

- High voltage rectifier of medical equipment system
- Micro medical instrument
- Cottrell process
- power supply of laser
- Voltage multiplying circuits
- Rectification of power supplies for other electronic devices
- Metal detector



<https://www.yzpst.com/plastic-package-diode/57010826.html>



<https://www.yzpst.com/plastic-package-diode/57039512.html>

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# Power Diodes

## High Voltage Diodes in Plastic Package

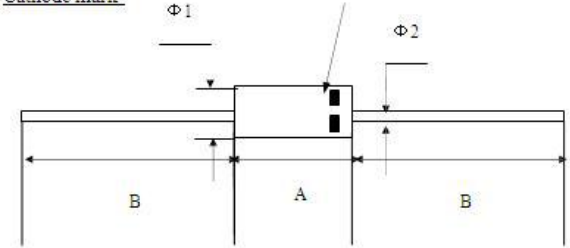
YZPST

YANGZHOU POSITIONING TECH. CO., LTD

YZPST-HV HVR glass passivation chip series - Specification

### Dimensions (mm)

Cathode mark



| Model    |       | Repetitive Peak Reverse Voltage<br>$V_{RRM}$ KV | Average Forward Rectified Current<br>$I_O$ mA | Maximum Forward Surge Current<br>$I_{FSM}$ A | Maximum Peak Forward Voltage<br>$V_{FM}$ V, | Maximum DC Reverse Current<br>$I_{RM}$ A |                         | Maximum Reverse Recovery Time<br>$t_{rr}$ nS |
|----------|-------|-------------------------------------------------|-----------------------------------------------|----------------------------------------------|---------------------------------------------|------------------------------------------|-------------------------|----------------------------------------------|
|          |       |                                                 |                                               |                                              |                                             | $T_a=25^\circ\text{C}$                   | $T_a=100^\circ\text{C}$ |                                              |
| YZPST-HV | HVRW3 | 3                                               | 2                                             | 60                                           | 5.0                                         | 50                                       | 500                     | 150                                          |
|          | HVRW4 | 4                                               | 1.5                                           | 50                                           | 6.0                                         | 50                                       | 500                     | 150                                          |
| YZPST-HV | HVRM3 | 3                                               | 3                                             | 60                                           | 4.0                                         | 50                                       | 500                     | -                                            |
|          | HVRM4 | 4                                               | 2                                             | 50                                           | 5.0                                         | 50                                       | 500                     | -                                            |

| Type       | A   | B(min) | $\Phi 1$ | $\Phi 2$ |
|------------|-----|--------|----------|----------|
| HVR series | 8.9 | 26.5   | 8.9      | 1.2      |

# Power Diodes

## High Voltage Diodes in Plastic Package

YZPST

YANGZHOU POSITIONING TECH. CO., LTD

YZPST-Special high-voltage assembly

### Product Characteristics:

- Compact structure and the wiring is convenient
- Anti instantaneous large current excellent impact property
- The reverse avalanche breakdown characteristic
- Can choose recovery time
- More dimensions choice
- $T_{rr}$ : 30nS-300Ns
- Operating temperature:  $-40^{\circ}\text{C}$  -  $+150^{\circ}\text{C}$
- Current range: 5mA-6A, voltage range: 5kv-300kv

### Application:

Our company supply many kinds of power frequency, high frequency, snow slide, immersion oil, air, special type, lead type, semi-bridge system, Impact type, line type high-voltage silicon stack, Current range from 20mA, 200mA, 500mA, 1.0A, 2.0A to 10.0A, voltage range from 30KV to 500KV.



<https://www.yzpst.net/yzpst-pu50-08n-15942580687288193.html>



<https://www.yzpst.net/high-voltage-diode-15880449732163318.html>

# Power Diodes

## High Voltage Diodes in Plastic Package

YZPST

YANGZHOU POSITIONING TECH. CO., LTD

YZPST-Special high-voltage assembly

|                         |                                |                               |      |      |       |
|-------------------------|--------------------------------|-------------------------------|------|------|-------|
| power frequency         | 0.05A                          | 0.1A                          | 0.2A | 0.5A | 1.0A  |
|                         | 1.5A                           | 2.0A                          | 3.0A | 5.0A | 10.0A |
| high frequency          | 0.02A                          | 0.05A                         | 0.1A | 0.2A | 0.5A  |
|                         | 1.0A                           | 2.0A                          | 3.0A | 5.0A | 10.0A |
| Line type silicon stack | power frequency<br>0.05A-10.0A | high frequency<br>0.05A-10.0A |      |      |       |



<https://www.yzpst.com/plastic-package-diode/57436978.html>

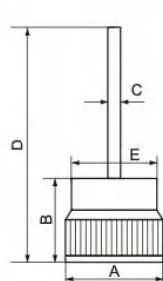
## Press-fit diode

### Features

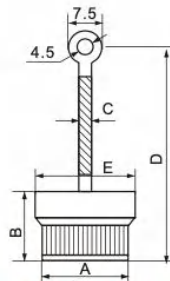
- Diffused Junction
- Low leakage
- Low forward voltage drop
- Low lost
- High surge current capability

### Mechanical Date

- Case & terminal:red copper
- Terminal:easy for soldering
- Polarity:standard cathode to case (ZQ3504) red color  
Reverse Anode to case (ZQ3504R) black color



Bosch type



Standard type

| BOSCH TYPE |       | DIM | STANDARD TYPE |       |
|------------|-------|-----|---------------|-------|
| MIN        | MAX   |     | MIN           | MAX   |
| 12.90      | 13.06 | A   | 12.90         | 13.06 |
| 7.70       | 8.10  | B   | 8.60          | 9.00  |
| 1.25       | 1.31  | C   | 1.80          | 2.20  |
| 29.10      | 31.10 | D   | 54.00         | 56.00 |
| 11.10      | 11.50 | E   | 16.10         | 16.50 |

| Type  | IF(AV) | VRRM    | VRMS     | IFSM | VFM | IRRM          |               | Rthj-c | Tj                 |
|-------|--------|---------|----------|------|-----|---------------|---------------|--------|--------------------|
|       | A      | V       | V        | A    | V   | TA=175℃<br>mA | TA=100℃<br>mA | ℃/w    | ℃                  |
| ZQ10A | 10     | 50~1200 | 0.7XVRRM | 200  | 1.0 | 5.0           | 0.5           | 1.0    | -65℃<br>~<br>+175℃ |
| ZQ25A | 25     | 50~1200 | 0.7XVRRM | 400  | 1.0 | 25.0          | 0.5           | 1.0    |                    |
| ZQ35A | 35     | 50~1200 | 0.7XVRRM | 400  | 1.2 | 25.0          | 0.5           | 1.0    |                    |
| ZQ50A | 50     | 50~1200 | 0.7XVRRM | 500  | 1.1 | 5.0           | 1.0           | 0.8    |                    |



<https://www.yzpst.com/rectifier-diode-standard-diode/62456993.html>

## More Diodes in Plastic Package

### 普通整流管

#### General Purpose Rectifiers

1A1 ~ 1A7-----  
1N4001S ~ 1N4007S-----  
1N4001 ~ 1N4007-----  
1N5391 ~ 1N5399-----  
RL201 ~ RL207-----  
1N5400 ~ 1N5408-----  
BY251 ~ BY255-----  
6A05 ~ 6A10-----  
10A05 ~ 10A10-----

### 玻璃钝化普通整流管

#### Glass Passivated General Purpose Rectifiers

1N4001SG ~ 1N4007SG-----  
1N4001G ~ 1N4007G-----  
1N5391G ~ 1N5399G-----  
RL201G ~ RL207G-----  
1N5400G ~ 1N5408G-----

### 表面贴装普通整流管

#### Surface Mount General Purpose Rectifiers

A1 ~ A7-----  
M1 ~ M7-----  
S1A ~ S1M-----  
S2A ~ S2M-----  
S3A ~ S3M-----

### 快恢复整流管

#### Fast Recovery Rectifiers

BA157 ~ BA159-----  
1N4933 ~ 1N4937-----  
FR101 ~ FR107-----  
FR151 ~ FR157-----  
BY296 ~ BY299-----  
FR201 ~ FR207-----  
BY396 ~ BY399-----  
FR301 ~ FR307-----  
FR601 ~ FR607-----

### 玻璃钝化快恢复整流管

#### Glass Passivated Fast Recovery Rectifiers

BA157G ~ BA159G-----  
1N4933G ~ 1N4937G-----  
FR101G ~ FR107G-----  
FR201G ~ FR207G-----  
FR301G ~ FR307G-----

### 表面贴装快恢复整流管

#### Surface Mount Fast Recovery Rectifiers

RS1A ~ RS1M-----

FR1A ~ FR1M-----  
FR2A ~ FR2M-----  
FR3A ~ FR3M-----

### 高效率整流管

#### High Efficiency Rectifiers

HER101 ~ HER108-----  
HER151 ~ HER158-----  
HER201 ~ HER208-----  
HER301 ~ HER308-----  
HER501 ~ HER508-----

### 玻璃钝化高效率整流管

#### Glass Passivated High Efficiency Rectifiers

HER101G ~ HER108G-----  
HER151G ~ HER158G-----  
HER201G ~ HER208G-----  
HER301G ~ HER308G-----

### 超快速整流管

#### Ultra Fast Rectifiers

UF4001 ~ UF4007-----  
UF5400 ~ UF5408-----

### 大电流高速整流管

#### Ultra Fast Switching Rectifiers

UF800 ~ UF808-----  
UF1000 ~ UF1008-----  
MUR1600 ~ MUR1680-----

### 表面贴装高效率整流管

#### Surface Mount High Efficiency Rectifiers

US1A ~ US1M-----  
UF1A ~ UF1M-----  
UF2A ~ UF2M-----  
UF3A ~ UF3M-----

### 超快恢复整流管

#### Super Fast Rectifiers

SF11 ~ SF18-----  
SF21 ~ SF28-----  
SF31 ~ SF38-----  
SF51 ~ SF58-----  
SF61 ~ SF68-----  
ER101 ~ ER106-----  
ER201 ~ ER206-----  
ER301 ~ ER306-----  
ER501 ~ ER506-----  
ER601 ~ ER606-----

### 玻璃钝化超快恢复整流管

#### Glass Passivated Super Fast Rectifiers

SF11G ~ SF18G-----  
SF21G ~ SF28G-----  
SF31G ~ SF38G-----  
SF51G ~ SF58G-----  
SF61G ~ SF68G-----

### 表面贴装超快恢复整流管

#### Surface Mount Super Fast Rectifiers

ES1A ~ ES1J-----  
ER1A ~ ER1J-----  
ER2A ~ ER2J-----  
ER3A ~ ER3J-----

### 肖特基整流管

#### Schottky Barrier Rectifiers

1S20 ~ 1S60-----  
1N5817 ~ 1N5819-----  
SB120 ~ SB1200-----  
SR120 ~ SR1100-----  
SB220 ~ SB2200-----  
SR220 ~ SR2100-----  
1N5820 ~ 1N5822-----  
SB320 ~ SB3200-----  
SR320 ~ SR3100-----  
SB520 ~ SB5200-----  
SR520 ~ SR5100-----  
10SQ20 ~ 10SQ100-----

### 表面贴装肖特基整流管

#### Surface Mount Schottky Barrier Rectifiers

SS12 ~ SS110-----  
SK12 ~ SK110-----  
SK22 ~ SK210-----  
SK32 ~ SK310-----

### 双肖特基整流管

#### Dual Schottky Barrier Rectifiers

MBR1020CT ~ MBR10100CT-----  
MBR1620CT ~ MBR16100CT-----  
MBR2020CT ~ MBR20100CT-----  
MBR3020CT ~ MBR30100CT-----  
MBR4020CT ~ MBR40100CT-----  
MBR6020CT ~ MBR60100CT-----

### 开关管

#### High Speed Switching Diodes

1N4148 ~ 1N914-----  
LL914 ~ LL4148-----

### 双向触发管

#### Diacs

DB3 ~ DB8-----

### 稳压管

#### Zener Diodes

BZX55C3V6 ~ BZX55C100-----  
1N5227B ~ 1N5267B-----  
1N4727A ~ 1N4764A-----  
2EZ3.6D5 ~ 2EZ100D5-----  
1N5342B ~ 1N5378B-----

### 瞬态电压抑制二极管

#### Transient Voltage Suppressors

P4KE6.8 ~ P4KE440A-----  
P4KE6.8C ~ P4KE440CA-----  
SA5.0 ~ SA170A-----  
SA5.0C ~ SA170CA-----  
P6KE6.8 ~ P6KE440A-----  
P6KE6.8C ~ P6KE440CA-----  
1.5KE6.8 ~ 1.5KE440A-----  
1.5KE6.8C ~ 1.5KE440CA-----  
5KP5.0 ~ 5KP180A-----  
5KP5.0C ~ 5KP180CA-----

### 整流桥

#### Bridge Rectifiers

MB05S ~ MB10S-----  
DB101S ~ DB107S-----  
DB101 ~ DB107-----  
W005 ~ W10-----  
RS201 ~ RS207-----  
RS401 ~ RS407-----  
RS601 ~ RS607-----  
RS801 ~ RS807-----  
KBPC1000S(W) ~ KBPC1010(W)-----  
KBPC1500S(W) ~ KBPC1510(W)-----  
KBPC2500S(W) ~ KBPC2510(W)-----  
KBPC3500S(W) ~ KBPC3510(W)-----

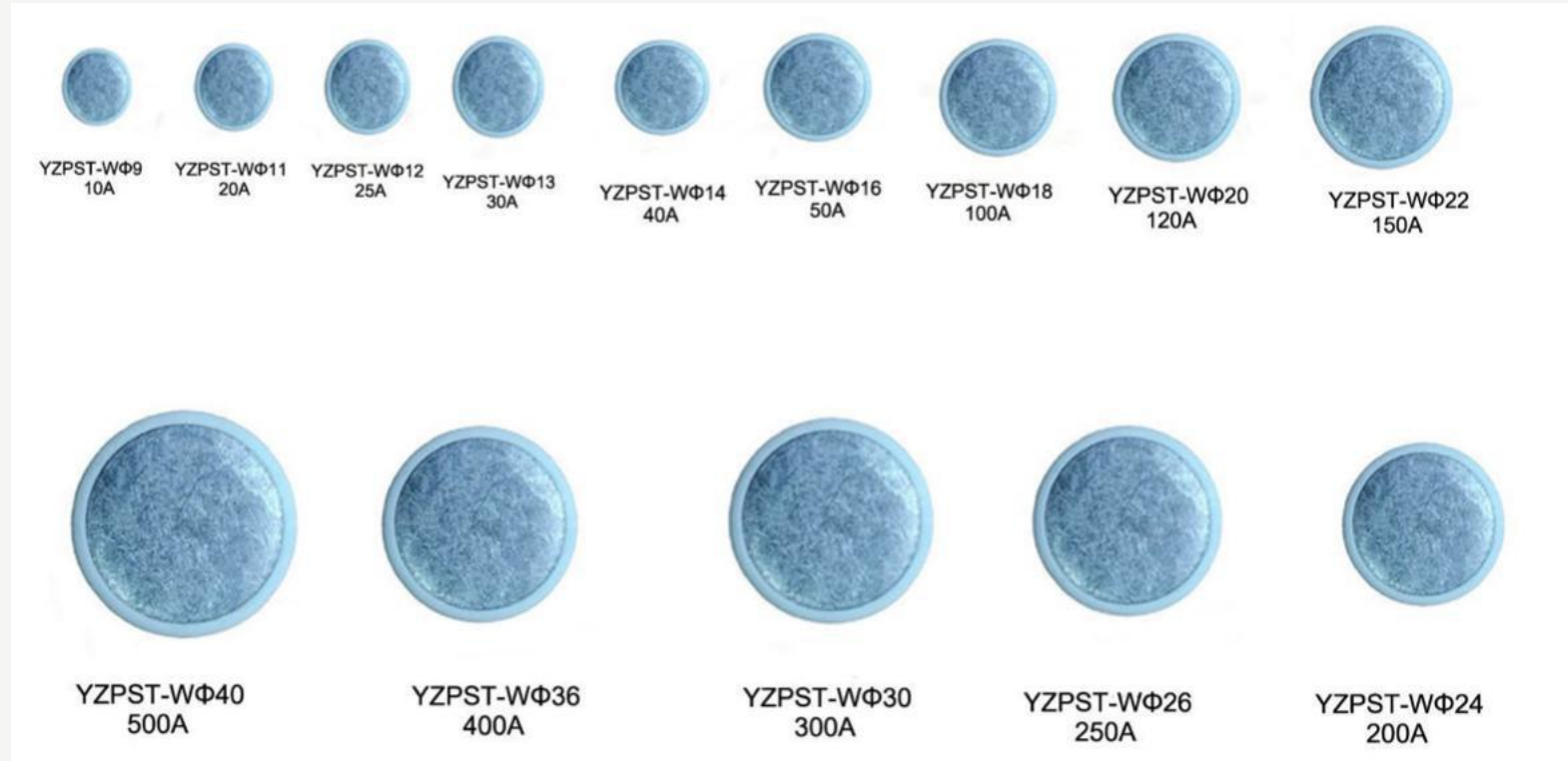
# Power Diodes Fusion

YZPST.

YANGZHOU POSITIONING TECH. CO., LTD

## Soldering Type Series Standard Rectifier Diode Fusion

$V_{RSM}$ : 500-5000V  
Fusion Size:  $\Phi 9$ -40



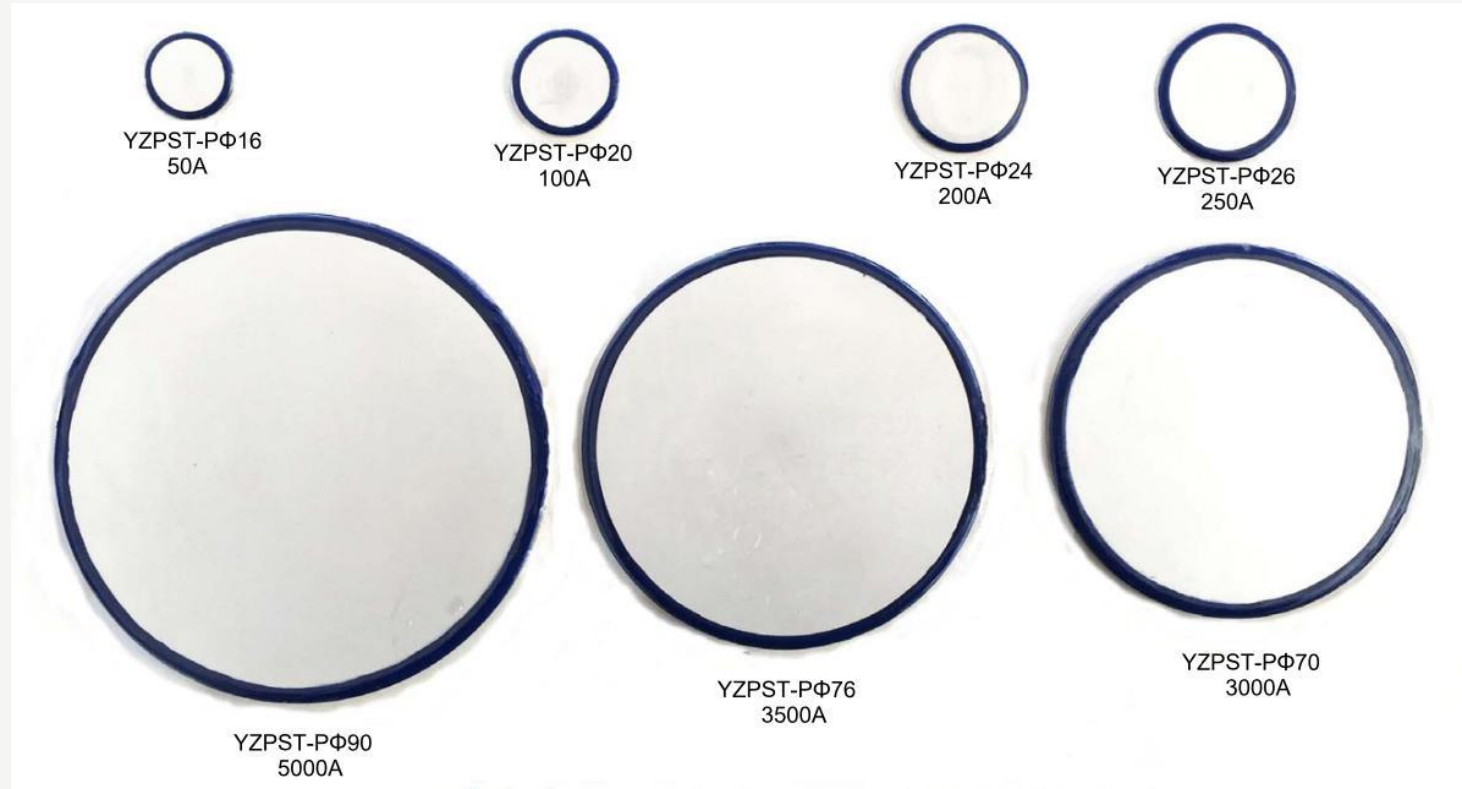
# Power Diodes Fusion

YZPST.

YANGZHOU POSITIONING TECH. CO., LTD

## Press-Fitting Type Series Standard Rectifier Diode Fusion

$V_{RSM}$ : 500-5000V  
Fusion Size:  $\Phi 16$ -90



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# Power Diodes Fusion

YZPST.

YANGZHOU POSITIONING TECH. CO., LTD

## Press-Fitting Type Series Standard Rectifier Diode Fusion

$V_{RSM}$ : 500-5000V  
Fusion Size:  $\Phi 16-90$



YZPST-P $\Phi$ 30  
300A



YZPST-P $\Phi$ 32  
400A



YZPST-P $\Phi$ 35  
500A



YZPST-P $\Phi$ 40  
600A



YZPST-P $\Phi$ 45  
800A



YZPST-P $\Phi$ 65  
2500A



YZPST-P $\Phi$ 60  
2000A



YZPST-P $\Phi$ 55  
1500A



YZPST-P $\Phi$ 50  
1000A

## Press-Fitting Type Series Fast Recovery Rectifier Diode Fusion

$V_{RSM}$ : 500-5000V

$T_{rr}$ : 1.0-5.0us

Fusion Size:  $\Phi 30$ -65



YZPST-PFR $\Phi 30$   
300A



YZPST-PFR $\Phi 32$   
400A



YZPST-PFR $\Phi 35$   
500A



YZPST-PFR $\Phi 40$   
600A



YZPST-PFR $\Phi 45$   
800A



YZPST-PFR $\Phi 65$   
2500A



YZPST-PFR $\Phi 60$   
2000A



YZPST-PFR $\Phi 55$   
1500A



YZPST-PFR $\Phi 50$   
1000A



# YZPST Products

-

## Ceramic housing

# Ceramic Housing



YANGZHOU POSITIONING TECH. CO., LTD

## Products List

- Ceramic Housing for GTO (1" – 5")
- Ceramic Housing for general rectifier and thyristor (1" – 6")
- Ceramic Housing for IGBT (2" – 5")
- Ceramic Housing for IGCT (2" – 5")
- Special-Shaped Series
- The extra thin Ceramic Housing (2" – 3")
- Stud Mounted Construction Cap Series (50A - 400A)
- Structural Pieces for Power Electronic Modules
- Ceramic Metal Sealed Tube Series

# Ceramic Housing

## Case Demonstration

YZPST.

YANGZHOU POSITIONING TECH. CO., LTD

Ceramic Housing for GTO (1" – 5")



Ceramic Housing for general rectifier and thyristor (1" – 6")



Ceramic Housing for IGBT (2" – 5")



# Ceramic Housing

## Case Demonstration

Ceramic Housing for IGCT (2" – 5")



The extra thin Ceramic Housing (2" – 3")



Structural Pieces for Power Electronic Modules



YZPST

YANGZHOU POSITIONING TECH. CO., LTD

Special-Shaped Series



Stud Mounted Construction Cap Series (50A - 400A)



Ceramic Metal Sealed Tube Series



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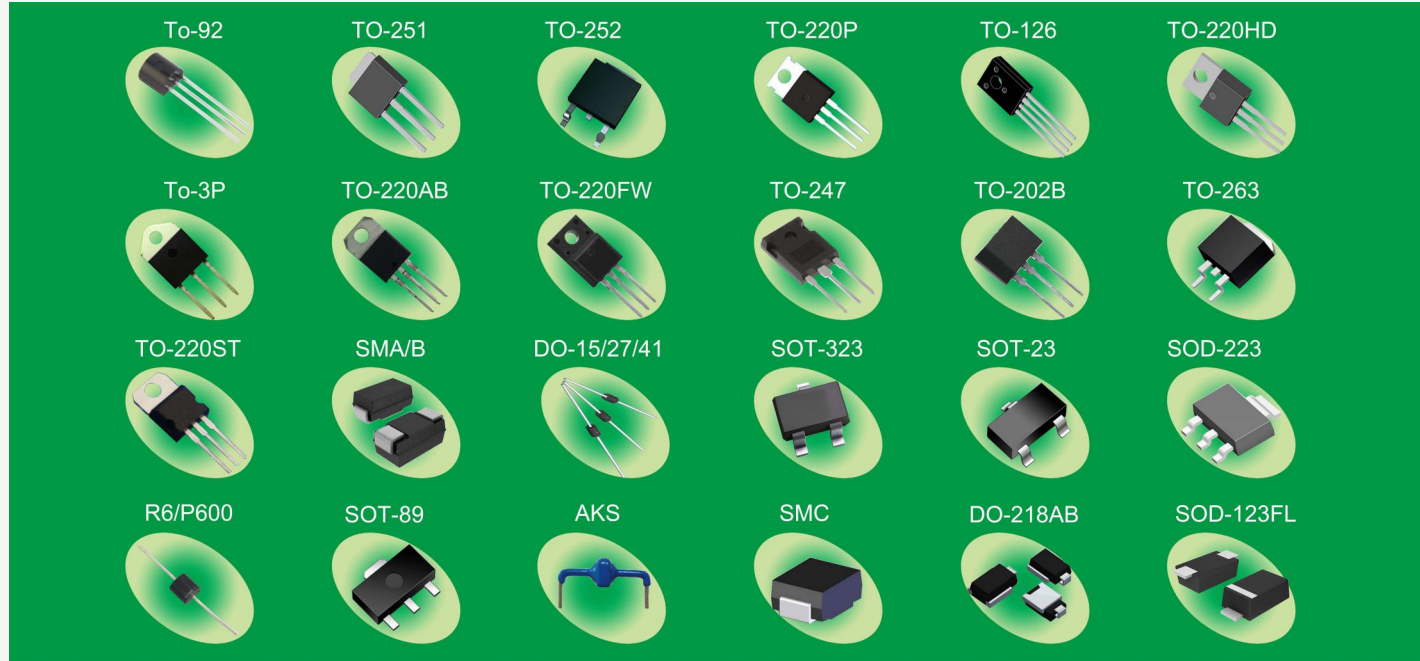


# YZPST Products

-

## Power Transistors Triacs & SCRs

## SCR Triac TSS TVS finished device



YZPST is specialized in the production of power electronic devices, including 0.6A-160A SCR and 0.6A-50A Triac.

TVS 5.0 V-510V series products.

TSS P0080-P3500 series of common capacitors and low capacitors.

Product quality assurance, passed ISO9001-2008 quality system certification, meet quality safety certification, meet ROHS environmental testing.

The company has a chip production line and finished devices assembly line.

The company is stable in quality, reliable in performance, reasonable in price, rapid delivery, considerate service for the business philosophy.

# Triacs & SCRs

YZPST

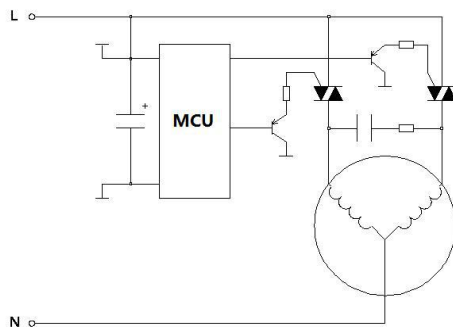
YANGZHOU POSITIONING TECH. CO., LTD

Triac: 3Q YZPST0835-8F (8A, 800V, 150°C)

## Application



Washing machine



## Key parameters

| Parameters | Value   |
|------------|---------|
| ITRMS      | 8A      |
| VDRM       | 800V    |
| IGT        | 10~35mA |
| ITSM       | 80A     |
| Tjmax      | 150 °C  |

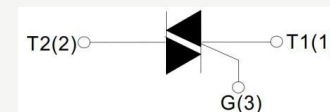
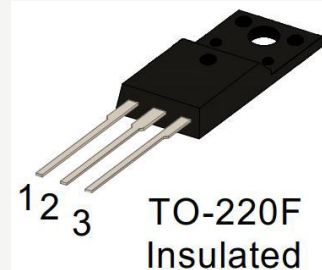
## Key features and benefits:

- Voltage ruggedness and reliability
- Latest generation 3Q technology for improved noise immunity
- High commutation capability with maximum false trigger immunity and very high immunity to false turn-on by dV/dt
- Snubber less in washing machine application
- High junction operating temperature capability (150°C)
- High current capability

## Cross reference

| YZPST        | NXP                                            | ST               | Renesas |
|--------------|------------------------------------------------|------------------|---------|
| YZPST0835-8F | BTA308X-800C0<br>BTA208X-1000C0<br>ACTT8-800C0 | T830xx<br>T835xx | BCR8xx  |

## Packages



# Triacs & SCRs

YZPST

YANGZHOU POSITIONING TECH. CO., LTD

**Triac: YZPST40/F40 3Q/4Q 40A, 800~1600V, 150°C**

## Application



Power tools



SSR



Water heater



Room heater



Vacuum cleaner



Copier

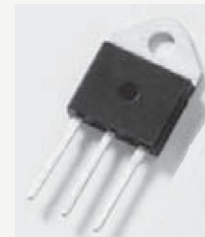
## Key features and benefits:

- Voltage ruggedness and reliability
- Latest generation 3Q technology for improved noise immunity
- High commutation capability with maximum false trigger immunity and very high immunity to false turn-on by  $dV/dt$
- High junction operating temperature capability (150°C)
- Less sensitive gate for high noise immunity
- Very high current capability

## Cross reference

| YZPST                      | NXP           | ST                             | Littelfuse |
|----------------------------|---------------|--------------------------------|------------|
| BTA41/BTB41<br>PST40/PSF40 | BTA440L-800BT | BTA41xx<br>BTB41xx<br>TPDVxx40 | Qxx40xx    |

## Packages



**Internally Insulated  
TOP3**

## Key parameters

| Parameters | Value                     |
|------------|---------------------------|
| ITRMS      | 40A                       |
| VDRM       | 800V, 1000V, 1200V, 1600V |
| IGT        | 10~50mA                   |
| ITSM       | 500A                      |
| Tjmax      | 150 °C                    |

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# Triacs & SCRs

YZPST

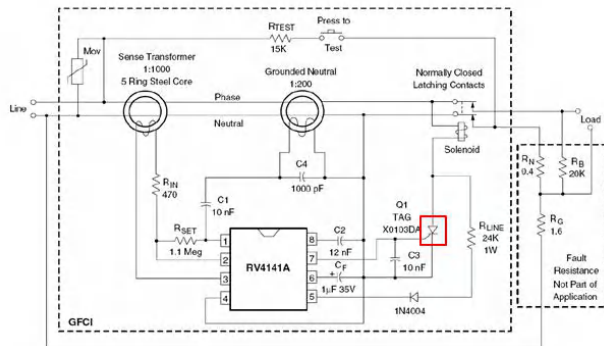
YANGZHOU POSITIONING TECH. CO., LTD

SCR: YZPST SP8/01/02 series, 0.8A~2A 800V/1000V TO92, SOT223, SOT89

## Application



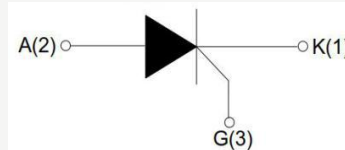
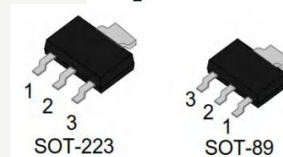
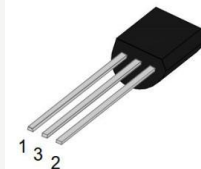
GFCI



## Key features and benefits:

- Voltage ruggedness and reliability
- Latest generation SCR technology for improved noise immunity
- High commutation capability with maximum false trigger immunity and very high immunity to false turn-on by dV/dt
- **Surface Mountable Package**
- **1000V maximum voltage**

## Packages



## Key parameters

| Parameters   | Value      |
|--------------|------------|
| ITRMS        | 0.8A~2A    |
| Voltage/VDRM | 800V/1000V |
| IGT          | 0~200uA    |
| Target ITSM  | 8A~18A     |
| Tjmax        | 110 °C     |

## Cross reference

| YZPST                          | NXP                | Renesas    | ON        |
|--------------------------------|--------------------|------------|-----------|
| PSTSP8/PSTS01/PSTS02<br>MCR100 | NCR100-8L<br>BT169 | CR02, CR03 | MCR100-8I |

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# Triacs & SCRs

YZPST

YANGZHOU POSITIONING TECH. CO., LTD

## Triac: 3Q PST08 12 16 Series (8A, 12A, 16A 800V, 150°C)

### Application

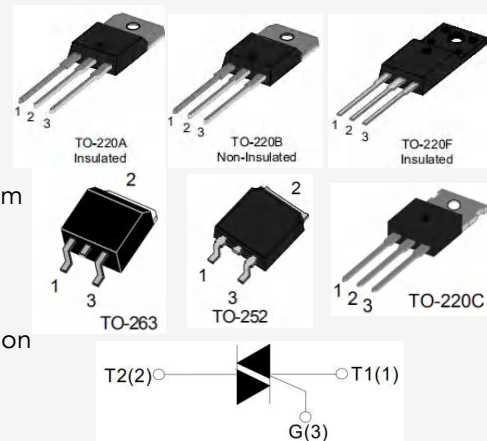
### Small Home Appliances



### Key features and benefits:

- Voltage ruggedness and reliability
- Latest generation 3Q technology for improved noise immunity
- High commutation capability with maximum false trigger immunity and very high immunity to false turn-on by  $dV/dt$
- Snubber less in washing machine application
- High junction operating temperature capability (**150°C**)
- High current capability

### Packages



### Key parameters

| Parameters | Value         |
|------------|---------------|
| ITRMS      | 8A            |
| VDRM       | 800V          |
| IGT        | 10~35mA       |
| ITSM       | 80A 120A 160A |
| Tjmax      | 150 °C        |

### Cross reference

| YZPST             | NXP                                                            | ST                                                                       | Renesas                  |
|-------------------|----------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------|
| PST08 PST12 PST16 | BTA308 BT312 BTA316<br>BTA416<br>BTA208 ACTT8 ACTT12<br>ACTT16 | T8xxT T8xxH<br>T12xxT T12xxH<br>T16xxT T16xxH<br>ACST08 ACST12<br>ACST16 | BCR8xx BCR12xx<br>BCR1xx |

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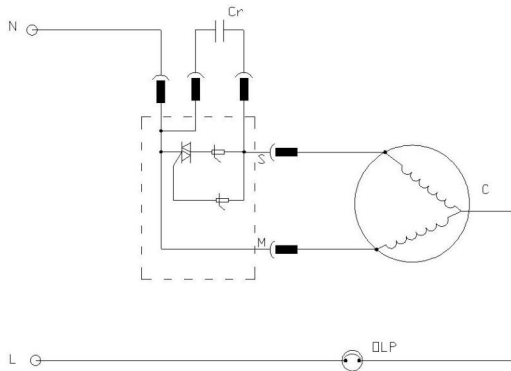
# Triacs & SCRs

YZPST

YANGZHOU POSITIONING TECH. CO., LTD

**Triac: BT137/BT138 (3Q/4Q, 8A 12A, 800V, 125°C)**

## Application

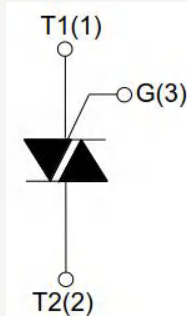
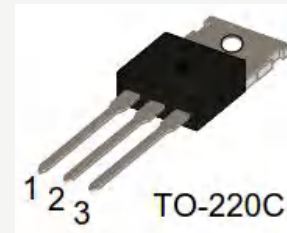


**Compressor Starter**

## Key features and benefits:

- Voltage ruggedness and reliability
- Optimized 4Q technology for improved noise immunity
- High commutation capability with maximum false trigger immunity and very high immunity to false turn-on by dV/dt
- 10mA low IGT limit to ensure compressor starter cutting off within 2s.
- Ultra Low standing by power lossing

## Packages



## Key parameters

| Parameters | Value     |
|------------|-----------|
| ITRMS      | 8A        |
| VDRM       | 600V/800V |
| IGT        | 10~50mA   |
| ITSM       | 80A/120A  |
| Tjmax      | 125 °C    |

## Cross reference

| YZPST       | NXP                     | ST                 | YZPST       |
|-------------|-------------------------|--------------------|-------------|
| BT137/BT138 | BT137-600G0/BT138-600G0 | T835T-6I/T1235T-6I | BT137/BT138 |

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# Power Transistors

YZPST

YANGZHOU POSITIONING TECH. CO., LTD

## Triacs & SCRs Equivalent replacement by YZPST

|            |        |       |          |           |
|------------|--------|-------|----------|-----------|
| 2P4M       | BT2588 | Q6006 | SCF6C60  | TS820     |
| 2P6M       | BY169  | Q8006 | S6012    | TS420     |
| 25TTS16    | BT169  | Q6008 | S8012    | TYN612    |
| 40TPS16    | BT151S | Q8008 | S8016    | TYN616    |
| 70TPS16    | BT148W | Q6010 | SCF25C60 | TYN816    |
|            | BT148S | Q8010 | S6025    | TYN620    |
| CR08AS     | BT151  | Q6016 | S8025    | TYN820    |
| C106       | BT152  | Q8016 | SK025    | TYN1025   |
| CS30       | BTW69  | Q6025 | S6035    | TYN1225   |
| CS45       | BT131  | Q8025 | S8035    | TYN630    |
| CS60-16i01 | BT134  | QK025 | SK035    | TYN830    |
|            | BT136  | Q6040 | S6040    | TYN640    |
| MCR100-6   | BCR2PM | Q8040 | S8040    | TYN840    |
| MCR100-8   | BTA01  | QK040 | S6055    | T405      |
| MCR706     | BTB04  |       | S8055    | T410      |
| MCR72-6/8  | BTA06  |       | SK055    | T435      |
| MCR22      | BTB06  |       | STN1A60  | T805      |
| MAC97A6    | BTA08  |       | STN1A80  | T810      |
| MAC97A8    | BTB08  |       | STF4A60  | T835      |
|            | BT137  |       | STF6A60  | TMG8C60   |
| FS0102MA   | BTA10  |       | STF08    | TMF12C60  |
|            | BTB10  |       | STF12A60 | T1235     |
| X0405      | BTA16  |       |          | TMG16C60  |
| X0805      | BTB16  |       |          | TIC246    |
| X0205      | BT139  |       |          | T1620     |
|            | BTA216 |       |          | T1635     |
| Z00607     | BTA20  |       |          | TMG20C60  |
| Z0103      | BTB20  |       |          | T2535     |
| Z0107      | BTA24  |       |          | TMG25CQ60 |
| Z0405      | BTB24  |       |          |           |
| Z0409      | BTA140 |       |          |           |
|            | BTA26  |       |          |           |
|            | BTB26  |       |          |           |
|            | BTA41  |       |          |           |
|            | BTB41  |       |          |           |

|              |            |               |              |
|--------------|------------|---------------|--------------|
| TN1215-600H  | T835-600G  | T1235H6G      | Z00607MN     |
| TN1215T-600B | T810T-61   | T1250H6G      | Z00607MA     |
| TN1215-600B  | T835T-61   | T1235H6I      | Z0103MN      |
| TYN612MFP    | T830-600W  | T1250H6I      | Z0107MN      |
| TN1215-800H  | TXDV608    | T1235H6T      | Z0109MN      |
| TN1215-800B  | T810-800H  | T1250H6T      | Z0103MA      |
| TYN812       | T835-800H  | T1235T-8T     | Z0107MA      |
| TYN610       | T810-800B  | T1235T-8FP    | Z0109MA      |
| TYN810       | T835-800B  | T1635H6G      | Z0405MF      |
| TYN612T      | T810-800G  | T1650H6G      | Z0409MF      |
| TYN612M      | T835-800G  | T1635H6I      | Z0410MF      |
| TN1215-600G  | T830-800W  | T1650H6I      | Z0405NF      |
| TN1215-800G  | T830-8FP   | T1635H6T      | Z0409NF      |
| TN1625-600G  | TXDV808    | T1650H6T      | Z0410NF      |
| TN1625-800G  | T1210-600G | T1625T-8I     |              |
| TN2540-600G  | T1235-600G | T1635T-8I     | ACS102-6TA   |
| TXN625       | T1250-600G | T1635T-8T     | ACS108-6SN   |
| TYN625       | T1210T-6I  | T1635T-8FP    | ACS110-7SN   |
| TN2540-800G  | T1235T-6I  | T2035H6G      | ACS108-6SA   |
| TXN825       | TXDC612    | T2050H6G      | ACST210-8B   |
| TYN825       | T1210-800G | T2035H6I      | ACST210-8FP  |
| TYN1225      | T1235-800G | T2050H6I      | ACST410-8B   |
| TYN640       | T1250-800G | T2035H6T      | ACST310-8B   |
| TYN840       | T1610-600G | T2050H6T      | ACST435-8B   |
| T405-600H    | T1635-600G | T3035H6I      | ACST410-8FP  |
| T410-600H    | T1610T-6I  | T3050H6I      | ACST310-8FP  |
| T435-600H    | T1635T-6I  | T3035H6T      | ACST435-8FP  |
| T405-600B    | T1620-600W | T3050H6T      | ACST830-8T   |
| T410-600B    | T1630-600W |               | ACST830-8FP  |
| T435-600B    | T1610-800G | TYN16-600CT   | ACST1010-7T  |
| T405-600T    | T1635-800G | TYN16-600RT   | ACST1035-7T  |
| T410-600T    | T1620-800W | TYN16X-600CT  | ACST1010-7FP |
| T435-600T    | T1630-800W | TYN16X-600RT  | ACST1035-7FP |
| T405-600W    | T2535-600G | TYN16-1210-7T | ACST1210-7T  |
| T410-600W    | T2535-800G | TYN16X-800RT  | ACST1235-7T  |
| T435-600W    | T2550-12G  | TYN20X-T      | ACST1635-8FP |
| T435T-600FP  | T2550-12T  |               |              |
| T405-800H    | T405Q-600H | MAC97A6       | ACT108W-600D |
| T410-800H    | T405Q-600B | MAC97A8       | ACT108-600D  |
| T435-800H    | T635T-8T   | MAC223A8X     | ACT108W-600E |
| T405-800B    | T635T-8FP  | MAC223A6      | ACTT25-800E  |
| T410-800B    | T835H6G    |               | ACTT2X-800E  |
| T435-800B    | T850H6G    | T810-600B     | ACTT45-800E  |
| T405-800T    | T835H6T    | T810-600G     | ACTT45-800C  |
| T410-800T    | T835H6I    | T835-600H     | ACTT8B-800C0 |
| T435-800T    | T850H6I    |               | ACTT8-800C0  |
| T405-800W    | T835T-8T   |               | ACTT8X-800C0 |
| T410-800W    | T850H6T    | ACTT12-800C   | ACTT10-800C  |
| T435-800W    | T835T-8FP  | ACTT12X-800C  | ACTT10X-800C |
| T810-600H    | T835-600B  | ACT108-600E   | ACTT12B-800C |

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## Triacs & SCRs Equivalent replacement by YZPST

|              |               |              |               |
|--------------|---------------|--------------|---------------|
| BT151U-650C  | BTA204X-800E  | BTA212-600B  | BTA216-600BT  |
| BT151U-500C  | BTA204X-800C  | BTA312-600B  | BTA316-600B   |
| BT151S-650R  | BTA204X-800B  | BTA212X-600D | BTA316-600B0  |
| BT151S-500R  | BTA206-800ET  | BTA312X-600D | BTA216X-600E  |
| BT151B-650R  | BTA206-800CT  | BTA212X-600E | BTA316X-600E  |
| BT151-650R/L | BTA206X-800ET | BTA312X-600E | BTA216X-600F  |
| BT151-500R/L | BTA206X-800CT | BTA212X-600F | BTA316X-600C  |
| BT151-650C   | BTA208S-600D  | BTA312X-600C | BTA216X-600B  |
| BT151X-500R  | BTA208S-600E  | BTA212X-600B | BTA316X-600B  |
| BT151X-650R  | BTA208S-600F  | BTA312X-600B | BTA316B-800E  |
| BT151U-800C  | BTA208S-600B  | BTA212B-800D | BTA316B-800C  |
| BT151S-800R  | BTA208B-1000C | BTA212B-800E | BTA216B-800B  |
| BT151B-800R  | BTA208-600D   | BTA312B-800E | BTA316B-800B  |
| BT151-800R   | BTA208-600E   | BTA212B-800F | BTA416Y-800C  |
| BT151X-800R  | BTA208-600F   | BTA312B-800C | BTA416Y-800B  |
| BT152-600R   | BTA208-600B   | BTA212B-800B | BTA316-800E   |
| BT152-400R   | BTA208X-600D  | BTA312B-800B | BTA316-800C   |
| BT152-500RT  | BTA208X-600E  | BTA312Y-800C | BTA216-800B   |
| BT152X-600R  | BTA208X-600F  | BTA412Y-800B | BTA316-800B   |
| BT152-800R   | BTA208X-600B  | BTA412Y-800C | BTA316X-800E  |
| BT152X-800R  | BTA208S-800E  | BTA212-800D  | BTA316X-800C  |
| BT14S-800R   | BTA208S-800F  | BTA212-800E  | BTA216X-800B  |
| BT155K-1200T | BTA208S-800B  | BTA312-800E  | BTA316X-800B  |
| BTA204W-600D | BTA208-800D   | BTA212-800F  | BTA420Y-800CT |
| BTA204W-600E | BTA208-800E   | BTA312-800C  | BTA420Y-800BT |
| BTA204W-600C | BTA208-800C   | BTA212-800B  | BTA420-800CT  |
| BTA204W-600B | BTA208-800B   | BTA312-800B  | BTA420-800BT  |
| BTA204W-800D | BTA208X-800E  | BTA212X-800D | BTA420X-800CT |
| BTA201W-800E | BTA208X-800C  | BTA212X-800E | BTA420X-800BT |
| BTA201W-800C | BTA308X-800C  | BTA212X-800E | BTA225B-600B  |
| BTA201W-800B | BTA208X-800B  | BTA212X-800F | BTA225-600B   |
| BTA204S-600D | BTA308X-800B  | BTA312X-800C | BTA225B-800B  |
| BTA204S-600E | BTA212B-600D  | BTA212X-800B | BTA425Y-800CT |
| BTA204S-600C | BTA312B-600D  | BTA312X-800B | BTA425Y-800BT |
| BTA204S-600B | BTA212B-600E  | BTA216B-600D | BTA225-800C   |
| BTA204-600D  | BTA312B-600E  | BTA216B-600E | BTA225-800B   |
| BTA204-600E  | BTA212B-600F  | BTA316B-600E | BTA425X-800BT |
| BTA204-600C  | BTA312B-600C  | BTA216B-600F | BT1308W-400D  |
| BTA204-600B  | BTA212B-600B  | BTA316B-600C | BT1308W-600D  |
| BTA204X-600D | BTA312B-600B  | BTA216B-600B | BT131W-600    |
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| BTA204X-600C | BTA412Y-600C  | BTA416Y-600C | BT134-600E    |
| BTA204X-600B | BTA412Y-600B  | BTA416Y-600B | BT134-800D    |
| BTA204S-800E | BTA216-600D   | BTA216-600D  | BT134-800E    |
| BTA204S-800C | BTA312-600D   | BTA316-600D  | BT134-800     |
| BTA204S-800B | BTA212-600E   | BTA216-600E  | BT136S-600D   |
| BTA204-800E  | BTA312-600E   | BTA316-600E  | BT136S-600E   |
| BTA204-800C  | BTA212-600F   | BTA216-600F  | BT136S-600F   |
| BTA204-800B  | BTA312-600C   | BTA316-600C  | BT136B-600E   |

|              |             |             |             |
|--------------|-------------|-------------|-------------|
| BT234-600D   | BTA08-600TW | BTA20-600CW | BTA16-600C  |
| BT136-600D   | BTA08-600SW | BTA20-600BW | BTA16-600B  |
| BT234-600E   | BTA08-600CW | BTB20-600CW | BTB16-600C  |
| BT136-600E   | BTA08-600BW | BTB20-600BW | BTB16-600B  |
| BT136-600F   | BTB08-600TW | BTA20-800CW | BTA16-800C  |
| BT234X-600D  | BTB08-600SW | BTA20-800BW | BTA16-800B  |
| BT136X-600D  | BTB08-600CW | BTB20-800CW | BTB16-800C  |
| BT136X-600E  | BTB08-600BW | BTB20-800BW | BTB16-800B  |
| BT136X-600F  | BTA08-800TW | BTA24-600CW | BTA24-600B  |
| BT136S-800D  | BTA08-800SW | BTA24-600BW | BTB24-600B  |
| BT136S-800E  | BTA08-800CW | BTB24-600CW | BTA24-800B  |
| BT136B-800E  | BTA08-800BW | BTB24-600BW | BTB24-800B  |
| BT234-800D   | BTB08-800TW | BTA24-800CW | BTA25-600B  |
| BT136-800D   | BTB08-800SW | BTA24-800BW | BTA25-800B  |
| BT234-800E   | BTB08-800CW | BTB24-800CW | BTA41-600B  |
| BT136-800E   | BTB08-800BW | BTB24-800BW | BTA40-600B  |
| BT234X-800D  | BTA12-600TW | BTA25-600CW | BTA41-800B  |
| BT136X-800D  | BTA12-600SW | BTA25-600BW | BTA40-800B  |
| BT234X-800E  | BTA12-600CW | BTA25-800CW |             |
| BT136X-800E  | BTA12-600BW | BTA25-800BW | BT137S-600D |
| BT236X-600F  | BTB12-600TW | BTA26-600CW | BT137S-600E |
| BT236X-600G  | BTB12-600SW | BTA26-600BW | BT137S-600F |
| BT236X-800F  | BTB12-600CW | BTA26-800CW | BT137-600E  |
| BT236X-800G  | BTB12-600BW | BTA26-800BW | BT137B-600E |
| BTW69-600    | BTA12-800TW | BTB04-600SL | BT137B-600D |
| BTW67-600    | BTA12-800SW | BTA06-600B  | BT137-600D  |
| BTW69-800    | BTA12-800CW | BTB06-600B  | BT137-600D  |
| BTW67-800    | BTA12-800BW | BTB06-600C  | BT137X-600D |
| BTW69-1200   | BTB12-800TW | BTB06-800B  | BT137X-600F |
| BTW69-1200N  | BTB12-800SW | BTB06-800C  | BT138B-600D |
| BTW67-1200   | BTB12-800CW | BTB06-800B  | BT138B-600E |
| BTA06-600TW  | BTB12-800BW | BTB06-800C  | BT138B-600D |
| BTA06-600SW  | BTA16-600TW | BTB08-600B  | BT138B-600F |
| BTA06-600CW  | BTA16-600SW | BTA08-600C  | BT138Y-600E |
| BTA06T-600CW | BTA16-600CW | BTA08-600B  | BT138-600D  |
| BTA06-600BW  | BTA16-600BW | BTB08-600C  | BT138-600E  |
| BTB06-600TW  | BTB16-600TW | BTB08-600B  | BT138-600F  |
| BTB06-600SW  | BTB16-600SW | BTA08-800C  | BT138X-600D |
| BTB06-600CW  | BTB16-600CW | BTA08-800B  | BT138X-600E |
| BTB06-600BW  | BTB16-600BW | BTB08-800C  | BT138X-600F |
| BTA06-800TW  | BTA16-800TW | BTB08-600B  | BT138-800D  |
| BTA06-800SW  | BTA16-800SW | BTA12-600C  | BT138-800E  |
| BTA06-800CW  | BTA16-800CW | BTA12-600B  | BT138-800F  |
| BTA06-800BW  | BTA16-800BW | BTB12-600C  | BT138B-800E |
| BTB06-800TW  | BTB16-800TW | BTB12-600B  | BT138B-800  |
| BTB06-800SW  | BTB16-800SW | BTA12-800B  | BT138Y-800E |
| BTB06-800CW  | BTB16-800CW | BTA12-800B  | BT138-800   |
| BTB06-800BW  | BTB16-800BW | BTB12-800C  | BT138X-800E |
|              |             | BTB12-800B  | BT138X-800  |

|             |               |               |                |
|-------------|---------------|---------------|----------------|
| BT138X-800F | BT139B-800    | BTA410X-600CT | BTA412Y-800BT  |
| BT139B-600D | BT139-800D    | BTA410X-600BT | BTA412Y-800CT  |
| BT139B-600E | BT139-800E    | BTA410Y-800CT | BTA312-800CT   |
| BT139B-600F | BT139-800     | BTA410Y-800BT | BTA416Y-600CT  |
| BT139-600D  | BT139X-800D   | BTA410-800CT  | BTA416Y-600BT  |
| BT139-600E  | BTA140-600    | BTA410-800BT  | BTA316-600BT   |
| BT139-600F  | BTA140-600G0  | BTA410X-800CT | BTA416Y-800CT  |
| BT139X-600D | BTA140-800    | BTA410X-800BT | BTA416Y-800BT  |
| BT139X-600E | BTA410Y-600CT | BTA312B-600CT | BTA201-800ER   |
| BT139X-600F | BTA410Y-600BT | BTA412Y-600BT | BTA208X-1000CO |
| BT139B-800D | BTA410-600CT  | BTA412Y-600CT | BTA308X-1000CO |
| BT139B-800E | BTA410-600BT  | BTA312-600CT  | BTA216Y-800B   |
| BT139B-800F |               |               |                |

### Typical Package Type List

|                |
|----------------|
| TO-92          |
| TO-251(IPAK)   |
| TO-252(DPAK)   |
| TO-220         |
| TO-220F        |
| TO-3P          |
| TO-247         |
| TO-126(SOT-82) |
| TO-223         |
| TO-202         |
| SOT-23         |
| SOT-89         |
| TO-263(D2PAK)  |

# Power Transistors

## Triac, SCR & MOSFET Product Model List

| Type   | Package    | Type | VDS (V) | Vgs (V) | Ids (A) | Pd (W) | Vgs(th) max (V) | Rds(on) mΩ(typ) @Vgs= |               |      | Qg (nC) | Qgs (nC) | Qgd (nC) |
|--------|------------|------|---------|---------|---------|--------|-----------------|-----------------------|---------------|------|---------|----------|----------|
|        |            |      |         |         |         |        |                 | 10V                   | 4.5V          | 2.5V | (4.5)   |          |          |
| 2301   | SOT23      | P    | -20V    | ±12     | -3A     | 1W     | -1V             |                       | 64mΩ          | 89mΩ | 3.3     | 0.7      | 1.3      |
| 2302   | SOT23      | N    | 20V     | ±10     | 2.9A    | 1W     | 1.2V            |                       | 30mΩ          | 37mΩ | 4       | 0.65     | 1.2      |
| 2305   | SOT23      | P    | -20V    | ±12     | -4.8A   | 1.7W   | -1V             |                       | 45mΩ          | 60mΩ | 7.8     | 1.2      | 1.6      |
| 3400   | SOT23      | N    | 30V     | ±12     | 5.8A    | 1.4W   | 1.4V            | 28mΩ                  | 31mΩ          | 45mΩ | 9.5     | 1.5      | 3        |
| 3401   | SOT23      | P    | -30V    | ±20     | -4.2A   | 1.2W   | -1.3V           | 50mΩ                  | 64mΩ          | 95mΩ | 9.5     | 2        | 3        |
| 10N03  | SOP8       | N    | 30V     | ±20     | 10A     | 2.5W   | 3V              | 7.5mΩ                 |               |      | 13      | 5.5      | 3.5      |
| 20N03  | TO-252     | N    | 30V     | ±20     | 20A     | 60W    | 3V              | 28mΩ                  |               |      | 15      | 2.9      | 3.2      |
| 30P03  | SOP8       | P    | 30V     | ±20     | -30A    | 60W    | 3V              |                       |               |      |         |          |          |
| 50N03  | TO-252     | N    | 30V     | ±20     | 50A     | 60W    | 3V              | 5.9mΩ                 |               |      | 23      | 7        | 4.5      |
| 60N03  | TO-252     | N    | 30V     | ±20     | 60A     | 46.3W  | 1.8V            | 3.3mΩ                 |               |      | 20      | 6        | 2        |
| 80N03  | TO-252     | N    | 30V     | ±20     | 80A     | 83W    |                 | 4.8mΩ                 |               |      | 51      | 14       | 11       |
| 100N03 | TO-252     | N    | 30V     | ±20     | 100A    | 110W   | 3V              | 4mΩ                   |               |      | 100     | 25       | 45       |
| 60N04  | TO-252     | N    | 40V     | ±20     | 60A     | 65W    | 1.9V            | 8.5mΩ                 | 12.5mΩ        |      | 29      | 4.5      | 6.4      |
| 4606   | SOP-8      | N+P  |         |         |         |        |                 |                       |               |      |         |          |          |
| 3N06   | SOT-223    | N    | 60V     | ±20     | 3A      | 1.7W   | 1.4V            | 105mΩ ( MAX )         | 125mΩ ( MAX ) |      | 6       | 1        | 1.3      |
| 15P06  | TO-252     | P    |         |         |         |        |                 |                       |               |      |         |          |          |
| 20N06  | TO-252     | N    | 60V     | ±20     | 20A     | 40W    | 3V              | 37mΩ                  |               |      | 12      | 4.1      | 4.5      |
| 25P06  | TO-252     | P    | -60V    | ±20     | -25A    | 90W    | -3.5V           | 45mΩ                  |               |      | 46      | 9.5      | 10.5     |
| 30N06  | TO-220/F   | N    | 60V     | ±20     | 30A     | 120W   | 4V              | 19mΩ                  |               |      | 34      | 9.6      | 10.5     |
| 50N06  | TO-252     | N    | 60V     | ±20     | 50A     | 120W   | 4V              | 19mΩ                  |               |      | 34      | 9.6      | 10.5     |
| 110N06 | TO-220/F   | N    | 60V     | ±20     | 110A    | 120W   | 2V              | 5.2mΩ                 |               |      | 113     | 14       | 54       |
| G1002  | TO-92      | N    | 100V    | ±20     | 2A      | 1.1W   | 2.5V            | 185mΩ                 |               |      | 5.2     | 0.75     | 1.4      |
| 5N10   | SOT223     | N    | 100V    | ±20     | 5A      | 3W     | 3V              | 135mΩ                 |               |      | 16      | 3.2      | 4.7      |
| 14N10  | TO-252     | N    | 100V    | ±20     | 14A     | 28W    | 2.6V            | 85mΩ                  |               |      | 11      | 1.9      | 2.8      |
| 30N10  | SOP8       | N    | 100V    | ±20     | 30A     | 85W    | 2.5V            | 24mΩ                  |               |      | 39      | 8        | 12       |
| 11N10  | TO-252     | N    | 100V    | ±20     | 11A     | 28W    | 2.6V            | 85mΩ                  |               |      | 11      | 1.9      | 2.8      |
| 12P10  | TO-252     | P    | -100V   | ±20     | -12A    | 40W    | -3V             | 170mΩ                 |               |      | 25      | 5        | 7        |
| 5N20   | TO-252     | N    | 200V    | ±20     | 5A      | 30W    | 2.5V            | 520mΩ                 |               |      | 12      | 2.5      | 3.8      |
| 2N60   | TO-252/251 | N    | 600V    | ±30     | 2A      | 45W    | 4V              | 5Ω                    |               |      | 9       | 1.6      | 4.3      |
| 2N60   | TO-        | N    | 600V    | ±30     | 2A      | 45W    | 4V              | 5Ω                    |               |      | 9       | 1.6      | 4.3      |
| 2N65   | TO-252     | N    | 650V    | ±30     | 2A      | 45W    | 4V              | 5Ω                    |               |      | 9       | 1.6      | 4.3      |
| 4N60   | TO-        | N    | 600V    | ±30     | 4A      | 100W   | 4V              | 3Ω                    |               |      | 5       | 2.7      | 2        |
| 4N60   | TO-252     | N    | 600V    | ±30     | 4A      | 33W    | 4V              | 3Ω                    |               |      | 5       | 2.7      | 2        |
| 5N60   | TO-220     | N    | 600V    | ±30     | 5A      | 100W   | 4V              | 2.5Ω                  |               |      | 16      | 3        | 7.2      |
| 6N65   | TO-        | N    | 650V    | ±30     | 6A      | 140W   | 4V              | 1.8Ω                  |               |      | 29      | 7        | 14.5     |
| 8N60   | TO-        | N    | 600V    | ±30     | 8A      | 140W   | 4V              | 1.0Ω                  |               |      | 45      | 6.8      | 18       |
| 12N65  | TO-        | N    | 650V    | ±30     | 12A     |        | 4V              | 0.8Ω                  |               |      | 42      | 8.6      | 21       |
| IRF640 | TO-        | N    | 200V    | ±30     | 18A     | 43W    | 4V              | 0.14Ω                 |               |      | 40      | 6        | 22       |
| IRF740 | TO-        | N    | 400V    | ±30     | 10.5A   | 45.5W  | 4V              | 0.43Ω                 |               |      | 30      | 4        | 15       |
| IRF840 | TO-        | N    | 500V    | ±30     | 9A      | 45.5W  | 4V              | 0.65Ω                 |               |      | 30      | 4        | 15       |

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YANGZHOU POSITIONING TECH. CO., LTD

| Type  | Part Nuber  | IT ( rms ) V | RRM/VDRM (V) | VGT(V)  | IGT(mA/uA) | Package Form           |
|-------|-------------|--------------|--------------|---------|------------|------------------------|
| Triac | BT A04      | 4A           | 600          | 1.3-1.5 | 1-30       | TO-220                 |
| Triac | BT A06      | 6A           | 600-800      | 1.3-1.5 | 1-30       | TO-220                 |
| Triac | BT A08      | 8A           | 600-800      | 1.3-1.5 | 1-30       | TO-220                 |
| Triac | BT A10      | 10A          | 600-800      | 1.3-1.5 | 1-30       | TO-220                 |
| Triac | BT A12      | 12A          | 600-800      | 1.3-1.5 | 1-30       | TO-220                 |
| Triac | BT A16      | 16A          | 600-800      | 1.3-1.5 | 1-30       | TO-220                 |
| Triac | BT A20      | 20A          | 600-800      | 1.3-1.5 | 1-30       | TO-220                 |
| Triac | BT A24      | 24A          | 600-800      | 1.3-1.5 | 1-30       | TO-220                 |
| Triac | BT A26      | 26A          | 600-800      | 1.3-1.5 | 10-35      | TO-3P                  |
| Triac | BT A41      | 41A          | 800-1600     | 1.3-1.5 | 10-35      | TO-3P                  |
| Triac | BT A40      | 60A          | 800-1600     | 1.3-1.5 | 10-35      | TO-3P                  |
| Triac | 97A6        | 0.8A         | 400          | 1       | 1-30       | TO-92/SOT-23-3L        |
| Triac | 97A8        | 0.8A         | 600          | 1       | 10-90      | TO-92/SOT-23-3L        |
| Triac | Z0409       | 4A           | 600          | 1.3-1.5 | 1-30       | TO-202                 |
| Triac | Z0607       | 4A           | 600          | 1.3-1.5 | 1-30       | TO-126/TO-202          |
| Triac | BT131       | 1A           | 400-600      | 1       | 1-30       | TO-92                  |
| Triac | BT134       | 2A           | 600          | 1.3-1.5 | 1-30       | TO-126                 |
| Triac | BTB04/BT136 | 4A           | 600          | 1.3-1.5 | 1-30       | TO-220                 |
| Triac | BTB06       | 6A           | 600-800      | 1.3-1.5 | 1-30       | TO-220                 |
| Triac | BTB08/BT137 | 8A           | 600-800      | 1.3-1.5 | 1-30       | TO-220/TO-252          |
| Triac | BTB10       | 10A          | 600-800      | 1.3-1.5 | 1-30       | TO-220                 |
| Triac | BTB12/BT138 | 12A          | 600-800      | 1.3-1.5 | 1-30       | TO-220/TO-252          |
| Triac | BTB16/BT139 | 16A          | 600-800      | 1.3-1.5 | 1-30       | TO-220                 |
| Triac | BTB20       | 20A          | 600-800      | 1.3-1.5 | 1-30       | TO-220                 |
| Triac | BTB24       | 24A          | 600-800      | 1.3-1.5 | 1-30       | TO-220                 |
| Triac | BTB26       | 26A          | 600-800      | 1.3-1.5 | 10-35      | TO-3P                  |
| Triac | BTB40       | 40A          | 800-1600     | 1.3-1.5 | 10-35      | TO-3P                  |
| Triac | BTB60       | 60A          | 800-1600     | 1.3-1.5 | 10-35      | TO-3P                  |
| SCR   | BCA04       | 4A           | 600          | 1.3-1.5 | 1-30       | TO-220                 |
| SCR   | BCA06       | 6A           | 600-800      | 1.3-1.5 | 1-30       | TO-220                 |
| SCR   | BCA08       | 8A           | 600-800      | 1.3-1.5 | 1-30       | TO-220                 |
| SCR   | BCA10       | 10A          | 600-800      | 1.3-1.5 | 1-30       | TO-220                 |
| SCR   | BCA12       | 12A          | 600-800      | 1.3-1.5 | 1-30       | TO-220                 |
| SCR   | BCA16       | 16A          | 600-800      | 1.3-1.5 | 1-30       | TO-220                 |
| SCR   | BCA20       | 20A          | 600-800      | 1.3-1.5 | 1-30       | TO-220                 |
| SCR   | BCA24       | 24A          | 600-800      | 1.3-1.5 | 1-30       | TO-220                 |
| SCR   | BCA26       | 26A          | 600-800      | 1.3-1.5 | 10-35      | TO-3P                  |
| SCR   | BCA40       | 40A          | 800-1600     | 1.3-1.5 | 10-35      | TO-3P                  |
| SCR   | BCA60       | 60A          | 800-1600     | 1.3-1.5 | 10-35      | TO-3P                  |
| SCR   | BCB04       | 4A           | 600          | 1.3-1.5 | 1-30       | TO-220                 |
| SCR   | BCB06       | 6A           | 600-800      | 1.3-1.5 | 1-30       | TO-220                 |
| SCR   | BCB08       | 8A           | 600-800      | 1.3-1.5 | 1-30       | TO-220                 |
| SCR   | BCB10       | 10A          | 600-800      | 1.3-1.5 | 1-30       | TO-220                 |
| SCR   | BCB08/BT151 | 8A           | 600-800      | 1.3-1.5 | 1-30       | TO-220/TO-252          |
| SCR   | BCB12/BT152 | 12A          | 600-800      | 1.3-1.5 | 1-30       | TO-220                 |
| SCR   | BCB20       | 20A          | 600-800      | 1.3-1.5 | 1-30       | TO-220                 |
| SCR   | BCB24       | 24A          | 600-800      | 1.3-1.5 | 1-30       | TO-220                 |
| SCR   | BCB26       | 26A          | 600-800      | 1.3-1.5 | 10-35      | TO-3P                  |
| SCR   | BCB40       | 40A          | 800-1600     | 1.3-1.5 | 10-35      | TO-3P                  |
| SCR   | BCB60       | 60A          | 800-1600     | 1.3-1.5 | 10-35      | TO-3P                  |
| SCR   | TYN612      | 12A          | 600          | 1.3-1.5 | 1-30       | TO-220                 |
| SCR   | TYN812      | 12A          | 800          | 1.3-1.5 | 1-30       | TO-220                 |
| SCR   | TYN816      | 16A          | 800          | 1.3-1.5 | 1-30       | TO-220                 |
| SCR   | TYN1225     | 25A          | 1200         | 1.3-1.5 | 10-35      | TO-220                 |
| SCR   | TYN1665     | 65A          | 1600         | 1.3-1.5 | 10-35      | TO-3P                  |
| SCR   | 100-6       | 0.8A         | 400          | 1       | 10-90UA    | TO-92/SOT-89/SOT-23-3L |
| SCR   | 100-8       | 0.8A         | 600          | 1       | 10-90UA    | TO-92/SOT-89/SOT-23-3L |
| SCR   | BT169       | 1A           | 600          | 1       | 10-90UA    | TO-92                  |
| SCR   | 2P4M        | 4A           | 600          | 1       | 10-90      | TO-126                 |
| SCR   | X0405       | 4A           | 600          | 1.3-1.5 | 1-30       | TO-202/252             |

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## Triacs & SCRs Products List

| Schottky TO-277 high power TO-220F plastic packaging                  |        |
|-----------------------------------------------------------------------|--------|
| SB1045L 88 / 98MIL voltage drop is about 0.5V                         | 88/98  |
| SB1045L 102MIL voltage drop is about 0.43V                            | 102    |
| SB1045L 112MIL                                                        | 112    |
| 10U45 Taiwan groove chip 65MIL low positive                           | 65     |
| 10U45 70MIL domestic                                                  | 70     |
| SB1060 TO277                                                          | 88     |
| SB10100 TO277                                                         | 88     |
| SB1545L TO277 118MIL                                                  | 118    |
| TVS series products, SMD parts                                        |        |
| P4KEseries ( Such as P4KE100A) within 240V                            | 52     |
| P6KEseries ( Such as P6KE200A) within 240V                            | 52     |
| 1.5KE OJ pickling DO27 within 240V                                    | 90     |
| 1.5KE GPP frame DO27 within 240V                                      | 145    |
| SMAJ5.0A(CA)-SMAJ240A(CA) SMA                                         | 60     |
| SMBJ5.0A(CA)-SMBJ240A(CA) SMB                                         | 60/72  |
| SMCJ5.0A(CA)-SMCJ240A(CA) SMC                                         | 90/110 |
| 3KP/5KP series OJ                                                     | 140    |
| SOD-123FL SMD (rectifier, fast, high frequency, ultra fast, Schottky) |        |
| A1-A7                                                                 | 42/46  |
| F7                                                                    |        |
| F1-F6                                                                 | 46     |
| S1M 46MIL                                                             |        |
| F1M 46MIL                                                             | 42     |
| E1A-E1J                                                               |        |
| U1A-U1M                                                               | 42     |
| 1N5819W/K14                                                           | 28     |
| K2/K6                                                                 | 28/28  |
| K110                                                                  | 28     |
| ( K24 ) 40MIL                                                         | 40     |
| ( K26 ) 40MIL                                                         |        |
| ( K210 ) 40MIL                                                        | 40     |
| ( K220 ) 40MIL                                                        | 50     |
| ( K34 ) 50MIL                                                         | 50     |
| ( K36 ) 50MIL                                                         | 50     |
| ( K310 ) 50MIL                                                        | 50     |
| K54 55MIL                                                             | 55     |

| SAMF patch<br>(rectification, fast, high frequency,<br>ultra fast, Schottky) |       |
|------------------------------------------------------------------------------|-------|
| M7F 42/46MIL                                                                 | 42/46 |
| RS1AF-RS1MF                                                                  | 40/46 |
| US1AF-US1MF                                                                  | 40/46 |
| ES1AF-ES1JF                                                                  | 40/46 |
| S2MF                                                                         | 50/60 |
| RS2AF-RS2MF                                                                  | 50/60 |
| US2AF-US2MF                                                                  | 50/60 |
| ES2AF-ES2JF                                                                  | 50/60 |
| S3MF                                                                         | 80    |
| SS14F 28mil                                                                  | 28    |
| SS16F 28mil                                                                  | 28    |
| SS110F 28mil                                                                 | 28    |
| SS24F 40mil                                                                  | 40    |
| SS210F 40mil                                                                 | 40    |
| SS34F 45mil                                                                  | 45    |
| SS32F/SS34F 50mil                                                            | 50    |
| SS54F 55MIL                                                                  | 55    |
| SS510F 60mil                                                                 | 60    |
| SS12                                                                         | 28    |
| SS14                                                                         | 28    |
| SS16                                                                         | 28    |
| SS18-SS110                                                                   | 28    |
| SS24Flat 35MIL                                                               | 35    |
| SS34Flat 40/45MIL                                                            | 40/45 |
| SS25-SS26 40MIL                                                              | 40    |
| SS28-SS210                                                                   | 40    |
| SS35-SS36 40MIL                                                              | 40    |
| SS35-SS36 45MIL                                                              | 45    |
| SS38-SS310 50MIL                                                             | 50    |
| SS315-SS320 50MIL                                                            | 50    |

| SMA frame patch<br>(rectifier, fast, high frequency, ultra fast, Schottky) |    |
|----------------------------------------------------------------------------|----|
| SS54 55MIL                                                                 | 55 |
| SS56 55MIL                                                                 |    |
| SS510 55MIL                                                                |    |
| SS515-SS520 55MIL                                                          |    |
| SS54-SS56 60MIL                                                            | 60 |
| SS510 60MIL                                                                |    |
| SS515-SS520 60MIL                                                          |    |
| MINI Rectifier Bridge Stack Schottky Bridge Stack                          |    |
| DB107                                                                      | 50 |
| DB107S disk                                                                |    |
| DB157                                                                      | 50 |
| DB157S                                                                     |    |
| MB6S 42                                                                    | 42 |
| MB8S 42                                                                    |    |
| MB10S 42                                                                   |    |
| MB6S 46                                                                    | 46 |
| MB8S 46                                                                    |    |
| MB10S 46                                                                   |    |
| MB6F 42MIL                                                                 | 42 |
| MB10F 42MIL                                                                |    |
| MB6F 46MIL                                                                 | 46 |
| MB10F 46MIL                                                                |    |
| MB6S-MB10S 50MIL                                                           | 50 |
| MB6F-MB10F 50MIL                                                           |    |
| TB10S 50MIL                                                                |    |
| ABS6-ABS10 50MIL                                                           |    |
| ABS22-ABS210 60MIL                                                         | 60 |
| MB6M 46mil                                                                 | 46 |
| MB10M 46mil                                                                | 46 |

# Power Transistors

## Triacs & SCRs Products List



YANGZHOU POSITIONING TECH. CO., LTD

| Type         | Package | Type      | Package   |
|--------------|---------|-----------|-----------|
| L7805CV 1.2A | TO-220  | BU406-A   | TO-220    |
| 78M05        | TO-252  | BU406-B   | TO-220    |
| 78M06        | TO-252  | E2955T    | TO-220    |
| 78M08        | TO-252  | E3055T    | TO-220    |
| L7809CV 1.2A | TO-220  | TIP122    | TO-220    |
| L7812CV 1.2A | TO-220  | TIP127    | TO-220    |
| L7805CV 1.5A | TO-220  | TIP132    | TO-220    |
| L7806CV 1.5A | TO-220  | TIP137    | TO-220    |
| L7808CV 1.5A | TO-220  | TIP142    | TO-220    |
| L7809CV 1.5A | TO-220  | TIP147    | TO-220    |
| L7810CV 1.5A | TO-220  | TIP31C    | TO-220    |
| L7812CV 1.5A | TO-220  | TIP32C    | TO-220    |
| 78M12        | TO-252  | TIP41C    | TO-220    |
| L7815CV 1.2A | TO-220  | TIP42C    | TO-220    |
| L7905CV 1.5A | TO-220  | BD243C    | TO-220    |
| L7912CV 1.5A | TO-220  | BD244C    | TO-220    |
| L7915CV 1.5A | TO-220  | D313Y     | TO-220    |
| LM317T 1.5A  | TO-220  | D401      | TO-220    |
| MCR100-6     | TO-92   | MUR840    | TO-220CE  |
| MCR100-8     | TO-92   | MUR860    | TO-220CE  |
| MAC97A6      | TO-92   | SF1004    | TO-220CE  |
| MAC97A8      | TO-92   | SF1006    | TO-220CE  |
| BT169D       | TO-92   | MUR1620CT | TO-220C/F |
| BT131-600    | TO-92   | MUR1640CT | TO-220C/F |
| BT134-600    | TO-92   | MUR1660CT | TO-220C/F |
| BT136-600E   | TO-220  | BDT63C    | TO-220    |
| BT136S       | TO-252  | BDT64C    | TO-220    |
| BT137S       | TO-252  | IRF530    | TO-220    |
| BT151S       | TO-252  | IRF540    | TO-220    |
| BT137-600E   | TO-220  | IRF630    | TO-220    |

| Type       | Package   | Type       | Package    |
|------------|-----------|------------|------------|
| BT138-600E | TO-220    | IRF640     | TO-220     |
| BT139-600E | TO-220    | IRF730     | TO-220     |
| BT151-500R | TO-220    | IRF740     | TO-220     |
| BT152-600R | TO-220    | IRF830     | TO-220     |
| BTA06-600C | TO-220    | IRF840     | TO-220     |
| BTA08-600C | TO-220    | IRF9530    | TO-220     |
| BTA12-600B | TO-220    | IRFZ44N    | 220C/F     |
| BTA16-600B | TO-220    | IRFZ48N    | 220C/F     |
| BTA20-600B | TO-220    | IRFP450N   | TO-247/3P  |
| BTA20-600B | TO-220    | TIP50      | TO-220     |
| BTA26-600B | TO-3P     | CD511      | TO-220     |
| BTA41-600B | TO-3P     | B325       | TO-220     |
| BTA41-700B | TO-3P     | 1N60C      | TO-251/252 |
| BTB04      | TO-220    | 2N60C      | TO-251/252 |
| E13003-2   | TO-220    | 2N60C      | TO-220C/F  |
| E13005-2   | TO-220    | 4N60C      | TO-220C/F  |
| J13007-2   | TO-220    | 5N60C      | TO-220C/F  |
| J13009-2   | TO-220    | 7N60C      | TO-220C/F  |
| 50NF06     | TO-220C/F | 8N60C      | TO-220C/F  |
| 60NF06     | TO-220C/F | 10N65C     | TO-220C/F  |
| 75NF75     | TO-220C/F | D92-02     | TO-247/3P  |
| 75NF75     | TO-220C/F | MBR20200PT | TO-247/3P  |
| MBR1045CT  | TO-220C/F | MBR3045PT  | TO-247/3P  |
| MBR10100CT | TO-220C/F | MBR3060PT  | TO-247/3P  |
| MBR10150CT | TO-220C/F | MBR30100PT | TO-247/3P  |
| MBR10200CT | TO-220C/F | MBR4060PT  | TO-247/3P  |
| MBR2045CT  | TO-220C/F | MBR40100PT | TO-247/3P  |
| MBR20100CT | TO-220C/F | MUR3020PT  | TO-247/3P  |
| MBR20150CT | TO-220C/F | MUR3040PT  | TO-247/3P  |
| MBR20200CT | TO-220C/F | MUR3060PT  | TO-247/3P  |
| MBR30100CT | TO-220C/F | MUR4060PT  | TO-247/3P  |
|            |           | MUR6060PT  | TO-247/3P  |

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## Triacs, SCRs & Diodes for UPS Inverter

RD8012

S1215 Series

S1215 Series

S1615 Series

S2550 Series

S3035 Series

S4040 Series

S5560 Series

S7560 Series

S9060 Series

ZP3016 RD3016

**RD8012 80A Rectifier Diode** Rev. 1.0

**DESCRIPTION:**  
The RD80 rectifier High Voltage Series has been optimized for very low forward voltage drop. The glass passivation technology used has reliable operation up to 150 °C junction temperature

**APPLICATIONS:**  
• Input rectification  
• Semiconductor switches and output rectifiers which are available in identical package outlines

**DESCRIPTION:**  
The rectifier High Voltage Series has been optimized for very low forward voltage drop. The glass passivation technology used has reliable operation up to 150 °C junction temperature

**APPLICATIONS:**  
• Input rectification  
• Semiconductor switches and output rectifiers which are available in identical package outlines

**S1215 12A SCRs**

**FEATURES**  
• High thermal cycling performance  
• High voltage capacity  
• Very high current surge capability

**APPLICATIONS**  
• Line rectifying 50/60 Hz  
• Softstart AC motor control  
• DC Motor control  
• Power converter  
• AC power control  
• Lighting and temperature control

**Parameters Summary**  
VD/VRR:600V/1000V IT(RMS):12A IGT:15mA

**S30 30A SCRs**

**FEATURES**  
• High thermal cycling performance  
• High voltage capacity  
• Very high current surge capability

**APPLICATIONS**  
• Line rectifying 50/60 Hz  
• Softstart AC motor control  
• DC Motor control  
• Power converter  
• AC power control  
• Lighting and temperature control

**Parameters Summary**  
VD/VRR:1200V IT(RMS):30A IGT:35mA

**S5560 55A SCRs**

**FEATURES**  
• High thermal cycling performance  
• High voltage capacity  
• Very high current surge capability

**APPLICATIONS**  
• Line rectifying 50/60 Hz  
• Softstart AC motor control  
• DC Motor control  
• Power converter  
• AC power control  
• Lighting and temperature control

**Parameters Summary**  
VD/VRR:1200V/1600V IT(RMS):55A IGT:60mA

**S7560 75A SCRs**

**FEATURES**  
• High thermal cycling performance  
• High voltage capacity  
• Very high current surge capability

**APPLICATIONS**  
• Line rectifying 50/60 Hz  
• Softstart AC motor control  
• DC Motor control  
• Power converter  
• AC power control  
• Lighting and temperature control

**Parameters Summary**  
VD/VRR:1200V/1600V IT(RMS):75A IGT:60mA

**S1615 16A SCRs**

**FEATURES**  
• High thermal cycling performance  
• High voltage capacity  
• Very high current surge capability

**APPLICATIONS**  
• Line rectifying 50/60 Hz  
• Softstart AC motor control  
• DC Motor control  
• Power converter  
• AC power control  
• Lighting and temperature control

**Parameters Summary**  
VD/VRR:600V/1000V IT(RMS):16A IGT:15mA

**S2550 25A SCRs**

**FEATURES**  
• High thermal cycling performance  
• High voltage capacity  
• Very high current surge capability

**APPLICATIONS**  
• Line rectifying 50/60 Hz  
• Softstart AC motor control  
• DC Motor control  
• Power converter  
• AC power control  
• Lighting and temperature control

**Parameters Summary**  
VD/VRR:1200V IT(RMS):25A IGT:50mA

**S4040 40A SCRs**

**FEATURES**  
• High thermal cycling performance  
• High voltage capacity  
• Very high current surge capability

**APPLICATIONS**  
• Line rectifying 50/60 Hz  
• Softstart AC motor control  
• DC Motor control  
• Power converter  
• AC power control  
• Lighting and temperature control

**Parameters Summary**  
VD/VRR:1200V/1600V IT(RMS):40A IGT:40mA

**S9060 90A SCRs**

**FEATURES**  
• High thermal cycling performance  
• High voltage capacity  
• Very high current surge capability

**APPLICATIONS**  
• Line rectifying 50/60 Hz  
• Softstart AC motor control  
• DC Motor control  
• Power converter  
• AC power control  
• Lighting and temperature control

**Parameters Summary**  
VD/VRR:1200V/1600V IT(RMS):90A IGT:60mA

## Schottky regulator, fast recovery diode product model List

| Type       | PD (W) | IO (A) | VR (V) | VF (V) |
|------------|--------|--------|--------|--------|
| MBR10100   | 2      | 10     | 100    | 0.85   |
| MBR10150   | 2      | 10     | 150    | 0.9    |
| MBR10200   | 2      | 10     | 200    | 0.9    |
| MBR20100   | 2      | 20     | 100    | 0.83   |
| MBR20200PT | 2      | 20     | 200    | 0.9    |
| MBR30100PT | 2      | 30     | 100    | 0.85   |
| MBR40100PT | 2      | 40     | 100    | 0.85   |
| MBR2045    | 2      | 20     | 45     | 0.7    |
| MBR2045    | 2      | 20     | 45     | 0.7    |
| MBR3045    | 2      | 30     | 45     | 0.7    |
| MBR30100CT | 2      | 30     | 100    | 0.85   |
| MUR1060    |        | 10     | 600    | 1.2    |
| MUR2060    |        | 20     | 600    | 1.2    |
| MUR3060    |        | 30     | 600    | 1.2    |
| MUR6060    |        | 60     | 600    | 1.2    |

## Three-terminal regulator product model List

| Type    | PD(W) | IO(A) | VO(V)         | VIROC(V)    | Package  |
|---------|-------|-------|---------------|-------------|----------|
| L7805CV | 15    | 1.5   | 4.8 ~ 5.2     | 7-25        | TO-220/F |
| L7806CV | 15    | 1.5   | 5.75 ~ 6.25   | 8-25        | TO-220/F |
| L7808CV | 15    | 1.5   | 7.7 ~ 8.3     | 10.5-25     | TO-220/F |
| L7809CV | 15    | 1.5   | 8.65 ~ 9.35   | 11.5-27     | TO-220/F |
| L7810CV | 15    | 1.5   | 9.5 ~ 10.5    | 12.5-28     | TO-220/F |
| L7812CV | 15    | 1.5   | 11.5 ~ 12.5   | 14.5-30     | TO-220/F |
| L7815CV | 15    | 1.5   | 14.4 ~ 15.6   | 17.5-30     | TO-220/F |
| L7818CV | 15    | 1.5   | 17.3 ~ 18.7   | 20.5-33     | TO-220/F |
| L7824CV | 15    | 1.5   | 23.5 ~ 24.5   | 26.5-35     | TO-220/F |
| L7905CV | 15    | 1.5   | -4.8 ~ -5.2   | -7 ~ -25    | TO-220/F |
| L7906CV | 15    | 1.5   | -5.75 ~ -6.25 | -8 ~ -25    | TO-220/F |
| L7908CV | 15    | 1.5   | -7.7 ~ -8.3   | -10.5 ~ -25 | TO-220/F |
| L7909CV | 15    | 1.5   | -8.65 ~ -9.35 | -11.5 ~ -26 | TO-220/F |
| L7910CV | 15    | 1.5   | -9.5 ~ -10.5  | -12.5 ~ -28 | TO-220/F |
| L7912CV | 15    | 1.5   | -11.5 ~ -12.5 | -14.5 ~ -30 | TO-220/F |
| L7915CV | 15    | 1.5   | -14.4 ~ -15.6 | -17.5 ~ -30 | TO-220/F |
| L7918CV | 15    | 1.5   | -17.3 ~ -18.7 | -20.5 ~ -33 | TO-220/F |
| L7924CV | 15    | 1.5   | -23.5 ~ -24.5 | -26.5 ~ -35 | TO-220/F |
| LM317   | 2     | 15    | 1.2 ~ 37      | 3 ~ 40      | TO-220/F |

# Power Transistors etc...



YANGZHOU POSITIONING TECH. CO., LTD

IC, MOS, Ultra Fast Recovery Diode, Switching Diode, High Frequency Transistors, SCR, Transistor, Schottky diode, Rectifier Diode in SMD package Products List

| TYPE                | Package | Marking          | Nanme   | Current          | Voltage | Construcion |
|---------------------|---------|------------------|---------|------------------|---------|-------------|
| TL431-0.5%          | SOT23   | 431              | IC      | 100MA            | 37V     |             |
| 78L05-3%            | SOT89   | 78L05 ( BA/109 ) | IC      | 100MA            | 5V      |             |
| 78L06-3%            | SOT89   | 78L06            | IC      | 6MA              | 5V      |             |
| 78L08-3%            | SOT89   | 78L08(8D/728)    | IC      | 100MA            | 8V      |             |
| 78L10-3%            | SOT89   | 78L10            | IC      | 6MA              | 30V     |             |
| 79L05-3%            | SOT89   | 79L05            | IC      | 100MA            | -5V     |             |
| LM78M05/78M05       | TO252   | 78M05            | IC      | 100MA            | 35V     |             |
| LM78M08/78M08       | TO252   | 78M08            | IC      | 0.5A             | 35V     |             |
| LM78M12/78M12       | TO252   | 78M12            | IC      |                  |         |             |
| AMS1117-3.3         | SOT223  | 1117-3.3 / K***  | LDO     | 1A               | 18V     |             |
| AMS1117-1.8         | SOT223  | 1117-1.8 / K***  | LDO     | 1A               | 18V     |             |
| AMS1117-ADJ         | SOT223  | 1117-ADJ / K***  | LDO     | 1A               | 18V     |             |
| AMS1117-1.2         | SOT223  | 1117-1.2 / K***  | LDO     | 1A               | 15V     |             |
| AMS1117-5.0         | SOT223  | 1117-5.0 / K***  | LDO     | 1A               | 18V     |             |
| KMA1117-3.3V        | SOT89   | 1117-3.3 / K***  | LDO     | 1A               | 18V     |             |
| HT7133              | SOT89   | D7133            | LDO     | 30MA             | 24V     |             |
| HT7136              | SOT89   | D7536            | LDO     | 30MA             | 24V     |             |
| HT7145              | SOT89   | D7145            | LDO     | 30MA             | 24V     |             |
| HT7150              | SOT89   | D7150            | LDO     | 30MA             | 24V     |             |
| HT7530              | SOT89   | D7530            | LDO     | 100MA            | 24V     |             |
| HT7533              | SOT89   | D7533            | LDO     | 100MA            | 24V     |             |
| HT7536              | SOT89   | D7536            | LDO     | 100MA            | 24V     |             |
| HT7545              | SOT89   | D7545            | LDO     | 100MA            | 24V     |             |
| HT7550              | SOT89   | D7550            | LDO     | 100MA            | 24V     |             |
| LM358               | SOP8    | 358 / K***       | ( IC )  |                  | 32V     |             |
| LM393               | SOP8    | 393 / K***       | ( IC )  |                  | 36V     |             |
| NJM4558             | SOP8    | 4558/ K***       | ( IC )  |                  |         |             |
| NE5532              | SOP8    | 5532 / K***      | ( IC )  |                  |         |             |
| KO4490              | SOP8    | 4490             | ( MOS ) | For quick charge |         |             |
| KI9435DY            | SOP8    |                  | ( MOS ) |                  |         |             |
| KI4953DY            | SOP8    |                  | ( MOS ) |                  |         |             |
| KI9926BDY           | SOP8    | 9926 / K***      | ( MOS ) | 6.5A             | 20V     | N           |
| pst5P02             | SOP8    | 5P02 / K***      | ( MOS ) | 5A               | 20V     | P           |
| KO4407DY            | SOP8    | 4407/ K***       | ( MOS ) | 12A              | 30V     | P           |
| KI4435DY            | SOP8    | 4435/ K***       | ( MOS ) | 10.5A            | 30V     | P           |
| FDT86244            | SOT223  | 86244 / K***     | ( MOS ) | 2.8A             | 150V    | N           |
| FDT3055/KDT3055L    | SOT223  | 3055/K***        | ( MOS ) | 4A               | 60V     | N           |
| KI2302DS/SI2302DS   | SOT23   | A2SHB            | ( MOS ) | 2.8A             | 20V     | N           |
| KI2301DS/SI2301     | SOT23   | A1SHB            | ( MOS ) | -2.4A            | -20V    | P           |
| 2N7002K             | SOT23   | K72/XD           | ( MOS ) | 300MA            | 60V     | N           |
| 2N7002              | SOT23   | 702              | ( MOS ) | 115MA            | 60V     | N           |
| BSS138              | SOT23   | J1               | ( MOS ) | 0.2A             | 50V     | N           |
| IRLML2402           | SOT23   | 1A7K             | ( MOS ) | 1.2A             | 20V     | N           |
| KRLML6401/IRLML6401 | SOT23   | 1F7K             | ( MOS ) | -4.3A            | -12V    | P           |

| TYPE                        | Package  | Marking              | Nanme                     | Current   | Voltage | Construcion |
|-----------------------------|----------|----------------------|---------------------------|-----------|---------|-------------|
| KO3401/AO3401               | SOT23    | A11TF                | ( MOS )                   | -4.2A     | -30V    | P           |
| KO3400/AO3400               | SOT23    | A08K                 | ( MOS )                   | 3.2A      | 20V     | N           |
| KI2301DS/SI2301             | SOT23-3  | A1SHB                | ( MOS )                   | -2.4A     | -20V    | N           |
| KO3401/AO3401               | SOT23-3  | A18E / **            | ( MOS )                   | -4.2A     | -30V    | P           |
| KI2302DS/SI2302DS           | SOT23-3  | A2SHB                | ( MOS )                   | 2.8A      | 20V     | N           |
| KO3407/AO3407               | SOT23-3  | A77E / **            | ( MOS )                   | -4.1A     | -30V    | P           |
| KRLML6401                   | SOT23-3  | 1F7K / **            | ( MOS )                   | -4.3A     | -12V    | P           |
| KO3400/AO3400               | SOT23-3  | A08K / **            | ( MOS )                   | 3.2A      | 20V     | N           |
| KI2300/SI2300DS             | SOT23-3  | 00A8C                | ( MOS )                   | 3.8A      | 20V     | N           |
| KI2312DS/SI2312DS           | SOT23-3  | C2SUB(AE9T)          | ( MOS )                   | 4.9A      | 20V     | N           |
| KI2323DS/KI2333CDS          | SOT23-3  | D3SUB                | ( MOS )                   | -5.1A     | -12V    | P           |
| KI2305DS/SI2305DS           | SOT23-3  | A5SHB                | ( MOS )                   | -3.5A     | -20V    | P           |
| KO3402/AO3402               | SOT23-3  | A27K / **            | ( MOS )                   | 4A        | 30V     | N           |
| KO3414/AO3414               | SOT23-3  | AE7G / **            | ( MOS )                   | 4.2A      | 20V     | N           |
| KI2310DS/SI2310DS           | SOT23-3  | 2310 / **            | ( MOS )                   | 6.5A      | 20V     | N           |
| KO3415/AO3415               | SOT23-3  | AF9T / **            | ( MOS )                   | 5A        | 20V     | P           |
| pst6P02-HF                  | SOT23-3  | AF3V / **            | ( MOS )                   | 6A        | 20V     | P           |
| IRLML0100                   | SOT23-3  | K100                 | ( MOS )                   | 1.6A      | 100V    | N           |
| FDC86244-HF                 | SOT23-6  | 86244/**             | ( MOS )                   | 2.3A      | 150V    | N           |
| AO6604/KO6604               | SOT23-6  | F44C(F1/**)          | ( MOS )                   | 2.5A/3.4A | 20V     | N+P         |
| AO6601/KO6601               | SOT23-6  |                      |                           |           |         |             |
| APM2701ACC                  | SOT23-6  |                      | ( MOS )                   | 1.5A/3A   | 20V     | N+P         |
| KO6401-HF                   | SOT23-6  |                      | ( MOS )                   | 5A        | 30V     | P           |
| pst5P02-HF                  | SOT23-6  |                      | ( MOS )                   | 5A        | 20V     | P           |
| FDC2512-HF                  | SOT23-6  | 2512/**              | ( MOS )                   | 1.4A      | 150V    | N           |
| FDC3612-HF                  | SOT23-6  | 3612/**              | ( MOS )                   | 2.6A      | 100V    | N           |
| KI8205T                     | SOT23-6  | 8205                 | ( MOS )                   | 4.3A      | 20V     | N+N         |
| ES1D/MURS120                | SMA      | ES1D                 | Ultra fast recovery diode | 1A        | 200V    |             |
| BAV103-HF                   | LL34     | /                    | Diode                     | 1A        | 250V    |             |
| 1N4148WS(A)/1SS355          | SOD323   | A Straight/Bent Feet | Switchingdiode            | 150MA     | 100V    |             |
| BAV21WS-HF                  | SOD323   | AA                   | Diode                     | 0.25A     | 250V    |             |
| MMBD4148                    | SOT23    | A6t/A6               | Diode                     | 150MA     | 75V     |             |
| BAV99                       | SOT23    | A7W                  | Diode                     | 215MA     | 85V     |             |
| BA521                       | SOT23    | JS                   | Diode                     | 200MA     | 250V    |             |
| BAV70-HF                    | SOT23    | A4tF                 | Diode                     | 215MA     | 85V     |             |
| 1SS181                      | SOT23    | A3                   | Diode                     | 100MA     | 85V     |             |
| BAV70                       | SOT23    | A4t                  | Diode                     | 70MA      | 70V     |             |
| BAR64-05W                   | SOT323   |                      | PIN diode                 |           |         |             |
| 2SC3356-R24/R25 HFE=125-250 | SOT23-3  | R24 / R25            | High Frequency transistor | 100MA     | 12V     | 7GHZ        |
| 2SC2734-R25/GC HFE=100-200  | SOT23-3  | R25. / GC            | High Frequency transistor | 50MA      | 11V     | 3.5GHZ      |
| KL4148                      | LL34     | /                    | Switchingdiode            | 150MA     | 75V     |             |
| 1N4148W                     | SOD123F  | T4                   | Switchingdiode            | 150MA     | 100V    |             |
| BAV203                      | SOD123FL |                      | Switchingdiode            |           |         |             |
| 1SS400                      | SOD523   | A                    | Switchingdiode            | 0.1A      | 90V     |             |

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# Power Transistors etc...



YANGZHOU POSITIONING TECH. CO., LTD

IC, MOS, Ultra Fast Recovery Diode, Switching Diode, High Frequency Transistors, SCR, Transistor, Schottky diode, Rectifier Diode in SMD package Products List

| TYPE                    | Package | Marking         | Nanme      | Current | Voltage | Construcion |
|-------------------------|---------|-----------------|------------|---------|---------|-------------|
| 03P4J                   | SOT89   | 03P4J           | SCR        | 0.47A   | 400V    |             |
| BT169/BT169-400A        | SOT89   | BT169           | SCR        | 0.8A    | 400V    |             |
| CR08AS-08               | SOT89   | 54/AD           | SCR        | 1.26A   | 400V    |             |
| CR08AS-12               | SOT89   | AF / **         | SCR        | 1.26A   | 600V    |             |
| FR107(RS1M)             | SMA     | RS1M            | FRD        | 1A      | 1000V   |             |
| FZT953 HFE=100-300      | SOT223  | FZT953 / K***   | Transistor | 5A      | 100V    | PNP         |
| pstTP2013               | SOT223  |                 |            |         |         |             |
| pstTP2014               | SOT223  |                 |            |         |         |             |
| FZT955 HFE=100-300      | SOT223  | FZT955 / K***   | Transistor | 4A      | 140V    | PNP         |
| BCP53-16 HFE=100-250    | SOT223  | BCP53-16 / K*** | Transistor | 1A      | 80V     | PNP         |
| BCP69-16 HFE=100-250    | SOT223  | BCP69-16 / K*** | Transistor | 1A      | 20V     | PNP         |
| KMBT3904 HFE=100-300    | SOT23   | 1AM             | Transistor | 200MA   | 40V     | NPN         |
| KST8050S HFE=200-350    | SOT23   | J3Y             | Transistor | 0.5A    | 25V     | NPN         |
| KMBT3906 HFE=100-300    | SOT23   | 2A              | Transistor | 200MA   | 40V     | PNP         |
| BC848B                  | SOT23   | 1K              | Transistor | 100MA   | 30V     | NPN         |
| KST9014 HFE=200-450     | SOT23   | J6              | Transistor | 100MA   | 45V     | NPN         |
| KST8550S HFE=200-350    | SOT23   | 2TY             | Transistor | 0.5A    | 25V     | PNP         |
| KST8050D HFE=200-350    | SOT23   | Y1              | Transistor | 1.5A    | 25V     | NPN         |
| KST8550D HFE=200-350    | SOT23   | Y2              | Transistor | 1.5A    | 25V     | PNP         |
| 2SC1623 HFE=200-400     | SOT23   | L6              | Transistor | 100MA   | 50V     | NPN         |
| KST9013 HFE=200-350     | SOT23   | J3              | Transistor | 0.5A    | 25V     | NPN         |
| BC858B                  | SOT23   | 1K              | Transistor | 100MA   | 30V     | PNP         |
| MMBT5551 HFE=100-300    | SOT23   | G1              | Transistor | 0.6A    | 160V    | NPN         |
| KST9012 HFE=200-350     | SOT23   | 2T1             | Transistor | 0.5A    | 25V     | PNP         |
| KST8050M                | SOT23   | Y21             | Transistor | 0.8A    | 25V     | NPN         |
| MMBT2907A HFE=100-300   | SOT23   | 2F/W2F          | Transistor | 0.6A    | 40V     | PNP         |
| 2SA812-M6               | SOT23   | M6              | Transistor | 100MA   | 50V     | PNP         |
| KST8550M                | SOT23   | Y21             | Transistor | 0.8A    | 25V     | PNP         |
| 2SC1815-H HFE=200-400   | SOT23   | HF              | Transistor | 150MA   | 50V     | NPN         |
| MMBT5401 HFE=100-300    | SOT23   | 2L              | Transistor | 0.6A    | 150V    | PNP         |
| KMBT2222A HFE=100-300   | SOT23   | 1P              | Transistor | 0.6A    | 40V     | NPN         |
| KMBTA42 HFE=100-200     | SOT23   | 1D              | Transistor | 0.5A    | 300V    | NPN         |
| BC817-40 HFE=250-630    | SOT23   | 6C              | Transistor | 0.5A    | 45V     | NPN         |
| KST8050X                | SOT23   | Y2+             | Transistor | 1.5A    | 20V     | NPN         |
| 2SB624(BV4) HFE=200-320 | SOT23   | BV4             | Transistor | 0.7A    | 25V     | PNP         |
| BC807-40 HFE=250-630    | SOT23   | 5C              | Transistor | 0.5A    | 45V     | PNP         |
| KMBTA44 HFE=80-300      | SOT23   | 3D              | Transistor | 0.2A    | 400V    | NPN         |
| KMBTA94 HFE=200-350     | SOT23   | 4D              | Transistor | 0.2A    | 400V    | PNP         |

| TYPE                        | Package  | Marking                | Nanme            | Current | Voltage | Construcion |
|-----------------------------|----------|------------------------|------------------|---------|---------|-------------|
| 2SB772-P HFE=160-320        | SOT89    | 772P                   | Transistor       | 3A      | 30V     | PNP         |
| 2SB1132-R HFE=180-390       | SOT89    | BA/RN                  | Transistor       | 1A      | 32V     | PNP         |
| 2SB1188-R HFE=180-390       | SOT89    | BC/RN                  | Transistor       | 2A      | 32V     | PNP         |
| 2SD882-P/2SD882 HFE=160-320 | SOT89    | D882                   | Transistor       | 3A      | 30V     | NPN         |
| 2SD965                      | SOT89    |                        | Transistor       | 5A      | 20V     | NPN         |
| 2SD1664-R                   | SOT89    | DA/RN                  | Transistor       | 1A      | 32V     | NPN         |
| H8050D                      | SOT89    | 8050D                  | Transistor       | 1.5A    | 25V     | NPN         |
| H8550D                      | SOT89    | 855D                   | Transistor       | 1.5A    | 25V     | PNP         |
| 2SD1007-P HFE=200-400       | SOT89    | HP/66                  | Transistor       | 0.7A    | 120V    | NPN         |
| 2SD1007-Q HFE=135-270       | SOT89    | HQ/39                  | Transistor       | 0.7A    | 120V    | NPN         |
| 2SB806-P HFE=200-400        | SOT89    | KQ                     | Transistor       | 0.7A    | 120V    | PNP         |
| BCX53-16 HFE=100-250        | SOT89    | AL                     | Transistor       | 1A      | 80V     | PNP         |
| BCX56-16 HFE=100-250        | SOT89    | BL                     | Transistor       | 1A      | 80V     | NPN         |
| 2SB1386-R                   | SOT89    | BH/RL                  | Transistor       | 5A      | 20V     | PNP         |
| 2SC4672-Q HFE=20-270        | SOT89    | DK/QN                  | Transistor       | 2A      | 50V     | NPN         |
| 2SC3357-E/F HFE=80-250      | SOT89    | RE/XX RF/XX            | Transistor       | 100MA   | 12V     | NPN         |
| 2SB772                      | TO252    | B772                   | Transistor       | 3A      | 30V     | PNP         |
| 2SD882                      | TO252    | D882                   | Transistor       | 3A      | 30V     | NPN         |
| 1N5819(SS14)                | SMA      | SS14                   | Schottky diode   | 1A      | 40V     |             |
| SS34                        | SMA      | SS34                   | Schottky diode   | 3A      | 40V     |             |
| 1N5819W(SL)                 | SOD123   | Bent Feet              | Schottky diode   | 1A      | 40V     |             |
| 1N5819FL                    | SOD123FL | SS14/Straight          | Schottky diode   | 1A      | 40V     |             |
| SS24FL                      | SOD123FL | SS24/Straight          | Schottky diode   | 2A      | 40V     |             |
| 1N5817W(SJ)                 | SOD123FL | SJ Straight            | Schottky diode   | 1A      | 20V     |             |
| SS34FL                      | SOD123FL | SS34                   | Schottky diode   | 3A      | 40V     |             |
| 1N5819WS(SL)                | SOD323   | SL Straight/Bent Feet  | Schottky diode   | 1A      | 40V     |             |
| 1N5817WS                    | SOD323   | SJ Straight/Bent Feet  | Schottky diode   | 1A      | 20V     |             |
| SD103AWS                    | SOD323   | S4 Bent Feet           | Schottky diode   | 350MA   | 40V     |             |
| RB521T-30                   | SOD882   |                        | Schottky diode   |         |         |             |
| BAT545                      | SOT23    | L44                    | Schottky diode   | 200MA   | 30V     |             |
| BAT54C                      | SOT23    | L43                    | Schottky diode   | 200MA   | 30V     |             |
| KLL4007                     | LL34     | /                      | Rectifier diode  | 1A      | 1000V   |             |
| 1N4007                      | SMA      | M7                     | Rectifier diode  | 1A      | 1000V   |             |
| 1N4004                      | SMA      | M4                     | Rectifier diode  | 1A      | 400V    |             |
| ABS210                      | ABS      | ABS210                 | Rectifier bridge | 2A      | 1000V   |             |
| ABS10                       | ABS      | ABS10                  | Rectifier bridge | 0.8A    | 1000V   |             |
| SS24                        | SMA      | SS24(Frame Structure ) | Schottky diode   | 2A      | 40      |             |
| MB6S/MB10S                  | MBS      | MB6S/MB10S             | Rectifier bridge | 0.75A   | 1000V   |             |
| BAT60B                      | SOD323   | SJ/Bent Feet           | Schottky diode   |         |         |             |
| KMP1340-079                 | SOD523   |                        | PIN diode        |         |         |             |

# Power Transistors



YANGZHOU POSITIONING TECH. CO., LTD

## Darlington transistor in TO3 package

| Parameter<br>Type | Polarity | PCM | ICM | VCEO | VCBO | VEBO | HFE |     |    |     | Note                   |
|-------------------|----------|-----|-----|------|------|------|-----|-----|----|-----|------------------------|
|                   |          |     |     |      |      |      | MIN | MAX | IC | VCE |                        |
|                   |          |     |     |      |      |      |     |     | A  | V   |                        |
| MJ10000           | NPN      | 175 | 20  | 350  | 450  | 8    | 1K  | 8K  | 2  | 5   | motor mower            |
| MJ10012           | NPN      | 175 | 10  | 400  | 600  | 8    | 1K  | 8K  | 2  | 5   | Automobile igniter     |
| MJ11015           | PNP      | 200 | 30  | 120  | 120  | 8    | 2K  | 10K | 2  | 5   | Audio power amplifier  |
| MJ11016           | NPN      | 200 | 30  | 120  | 120  | 8    | 2K  | 10K | 2  | 5   | Inverter power supply  |
| MJ11032           | NPN      | 300 | 50  | 120  | 120  | 8    | 2K  | 10K | 2  | 5   | Inverter power supply  |
| MJ11033           | PNP      | 300 | 50  | 120  | 120  | 8    | 2K  | 10K | 2  | 5   | Inverter power supply  |
| FW26025A-1        | PNP      | 100 | 15  | 120  | 120  | 8    | 2K  | 10K | 2  | 5   | Fan driver             |
| FW26025A-2        | PNP      | 200 | 30  | 120  | 120  | 8    | 2K  | 10K | 2  | 5   | Fan driver             |
| BU932             | NPN      | 150 | 15  | 400  | 500  | 8    | 2K  | 8K  | 2  | 5   | Automobile igniter     |
| BU941             | NPN      | 180 | 15  | 400  | 500  | 8    | 2K  | 8K  | 2  | 5   | Automobile igniter     |
| 2SD798            | NPN      | 30  | 6   | 300  | 600  | 8    | 1K  | 8K  | 2  | 5   | motor mower            |
| TIP122            | NPN      | 65  | 5   | 100  | 100  | 8    | 1K  | 10K | 2  | 5   | switching power supply |
| TIP127            | PNP      | 65  | 5   | 100  | 100  | 8    | 1K  | 10K | 2  | 5   | switching power supply |
| TIP132            | NPN      | 70  | 8   | 100  | 100  | 8    | 1K  | 10K | 2  | 5   | LED driver             |
| TIP137            | PNP      | 70  | 8   | 100  | 100  | 8    | 1K  | 10K | 2  | 5   | LED driver             |
| TIP142            | NPN      | 125 | 10  | 120  | 120  | 8    | 1K  | 10K | 2  | 5   | Voltage regulator      |
| TIP147            | PNP      | 125 | 10  | 120  | 120  | 8    | 1K  | 10K | 2  | 5   | Voltage regulator      |

## Power transistor in TO3 package

| Parameter<br>Type | Polarity | PCM | ICM | VCEO | VCBO | VEBO | HFE |     |    |     | Note                  |
|-------------------|----------|-----|-----|------|------|------|-----|-----|----|-----|-----------------------|
|                   |          |     |     |      |      |      | MIN | MAX | IC | VCE |                       |
|                   |          |     |     |      |      |      |     |     |    |     |                       |
| 2N3055            | NPN      | 115 | 15  | 100  | 100  | 8    | 40  | 70  | 4  | 4   | Inverter power supply |
| 2N3773            | NPN      | 150 | 16  | 140  | 160  | 8    | 20  | 60  | 8  | 4   | Inverter power supply |
| 2N6609            | PNP      | 150 | 16  | 140  | 160  | 8    | 20  | 60  | 8  | 4   |                       |
| 2N3771            | NPN      | 150 | 30  | 80   | 100  | 8    | 20  | 60  | 15 | 4   |                       |
| 2N6322            | NPN      | 200 | 30  | 200  | 300  | 8    | 40  | 150 | 5  | 5   |                       |
| 2N6688            | NPN      | 200 | 20  | 200  | 300  | 8    | 20  | 80  | 10 | 2   |                       |
| 2N6678            | NPN      | 175 | 15  | 400  | 650  | 8    | 20  | 50  | 1  | 5   | Ultrasonic equipment  |
| MJ2955            | PNP      | 115 | 15  | 100  | 100  | 8    | 40  | 70  | 4  | 4   |                       |
| MJ15003           | NPN      | 250 | 20  | 140  | 140  | 8    | 80  | 150 | 5  | 2   | Audio power amplifier |
| MJ15004           | PNP      | 250 | 20  | 140  | 140  | 8    | 80  | 150 | 5  | 2   | Audio power amplifier |
| MJ15024           | NPN      | 250 | 16  | 250  | 400  | 8    | 20  | 60  | 8  | 4   | Audio power amplifier |
| MJ15025           | PNP      | 250 | 16  | 250  | 400  | 8    | 20  | 60  | 8  | 4   | Audio power amplifier |
| MJ16012           | NPN      | 175 | 15  | 450  | 600  | 8    | 15  | 40  | 5  | 5   | Ultrasonic equipment  |
| MJ16016           | NPN      | 250 | 20  | 450  | 600  | 8    | 15  | 40  | 10 | 5   | Ultrasonic equipment  |
| BUS13A            | NPN      | 175 | 15  | 450  | 600  | 8    | 15  | 60  | 5  | 5   | Ultrasonic equipment  |
| BUS14A            | NPN      | 250 | 30  | 450  | 800  | 8    | 10  | 40  | 10 | 5   | Ultrasonic equipment  |
| BUX48A            | NPN      | 175 | 15  | 450  | 850  | 8    | 15  | 60  | 5  | 2   | Ultrasonic equipment  |
| BUX98A            | NPN      | 250 | 30  | 450  | 1000 | 8    | 15  | 50  | 1  | 5   | Ultrasonic equipment  |
| 2SC2246           | NPN      | 100 | 15  | 400  | 450  | 8    | 10  | 40  | 6  | 5   | Embroidery machine    |
| 2SC2625           | NPN      | 80  | 10  | 400  | 450  | 8    | 10  | 40  | 4  | 5   | Ultrasonic equipment  |
| 2SC3058           | NPN      | 200 | 30  | 400  | 600  | 8    | 10  | 40  | 20 | 5   | Ultrasonic equipment  |
| 2SC3998           | NPN      | 250 | 25  | 600  | 1200 | 8    | 10  | 40  | 10 | 5   | Plastic welding       |
| 2SD718            | NPN      | 80  | 10  | 120  | 120  | 8    | 70  | 140 | 1  | 5   | Audio power amplifier |
| 2SB688            | PNP      | 80  | 10  | 120  | 120  | 8    | 70  | 140 | 1  | 5   | Audio power amplifier |
| 2SC5198           | NPN      | 100 | 10  | 140  | 140  | 8    | 70  | 140 | 1  | 5   | Audio power amplifier |
| 2SA1941           | PNP      | 100 | 10  | 140  | 140  | 8    | 70  | 140 | 1  | 5   | Audio power amplifier |
| 2SC5200           | NPN      | 150 | 15  | 230  | 230  | 8    | 70  | 140 | 2  | 5   | Audio power amplifier |
| 2SA1943           | PNP      | 150 | 15  | 230  | 230  | 8    | 70  | 140 | 2  | 5   | Audio power amplifier |

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# Power Transistors



YANGZHOU POSITIONING TECH. CO., LTD

## Darlington transistor in TO3 package



<https://www.yzpst.net/yzpst-fw26025a-15893558400145575.html>



<https://www.yzpst.net/complementary-silicon-power-transistors-2n3055mj2955-16165496837985261.html>

## Power Transistor

| 型号 /<br>PART NO | 封装<br>/PACKAGE | 包装<br>/PACKAGING | 最低起订<br>数量<br>/MOQ | 兼容<br>型号<br>/Ref. |
|-----------------|----------------|------------------|--------------------|-------------------|
| TIP41C          | TO-220         | 50/Tube,2000/Box |                    |                   |
| TIP41C          | TO-252-2L      | 80/Tube,4000/Box |                    | MJD41C            |
| TIP42C          | TO-220         | 50/Tube,2000/Box |                    |                   |
| TIP42C          | TO-252-2L      | 80/Tube,4000/Box |                    | MJD41C            |

## Power Darlington Transistor

| 型号 / PART<br>NO | 封装 / PACKAGE | 包装 / PACKAGING   | 最低起订数量<br>/MOQ | 兼容型号 /Ref. |
|-----------------|--------------|------------------|----------------|------------|
| TIP122          | TO-220       | 50/Tube,2000/Box |                |            |
| TIP122          | TO-263-2L    | 50/Tube,2000/Box |                |            |
| TIP122          | TO-252-2L    | 80/Tube,4000/Box |                | MJD122     |
| TIP127          | TO-220       | 50/Tube,2000/Box |                |            |
| TIP127          | TO-263-2L    | 50/Tube,2000/Box |                |            |
| TIP127          | TO-252-2L    | 80/Tube,4000/Box |                | MJD127     |
| TIP142          | TO-220       | 50/Tube,2000/Box |                |            |
| TIP142          | TO-263-2L    | 50/Tube,2000/Box |                |            |
| TIP147          | TO-220       | 50/Tube,2000/Box |                |            |
| TIP147          | TO-263-2L    | 50/Tube,2000/Box |                |            |
| BU941ZP         | TO-247       | 30/Tube,300/Box  |                |            |
| BU941ZP         | TO-3P        | 30/Tube,300/Box  |                |            |
| BU941ZB         | TO-220       | 50/Tube,2000/Box |                | BU941ZT    |
| BU941ZB         | TO-263-2L    | 50/Tube,2000/Box |                | BUB941ZT   |
| BU931ZM         | TO-220       | 50/Tube,2000/Box |                | BU931ZT    |
| BU931ZM         | TO-263-2L    | 50/Tube,2000/Box |                | BUB931ZT   |
| D1071           | TO-220       | 50/Tube,2000/Box |                | 2SD1071    |
| D1071           | TO-263-2L    | 50/Tube,2000/Box |                | 2SD1071    |
| D1071S          | TO-252-2L    | 80/Tube,4000/Box |                |            |

# Power Transistors/ Diodes



YANGZHOU POSITIONING TECH. CO., LTD

## High frequency transistor

| Package |         |         |          |         |         |            |         |            |         | Vceo | Ic   | fr    |
|---------|---------|---------|----------|---------|---------|------------|---------|------------|---------|------|------|-------|
| SOT-323 | SOT-23  | SOT-143 | SOT-143R | SOT-89  | TO-50-3 | TO-50      | TO-92S  | TO-92      | M       | (V)  | (mA) | (MHz) |
| 2SC3936 | 2SC2788 |         |          |         |         |            | 2SC3313 | 2SC829     | 2SC2647 | 20   | 30   | 230   |
| 2SA1532 | 2SA1022 |         |          |         |         |            | 2SA1323 | 2SA838     | 2SA1254 | 20   | 30   | 250   |
| 2SC3930 | 2SC2295 |         |          |         |         |            | 2SC3314 | 2SC1359    | 2SC2206 | 20   | 30   | 250   |
|         |         |         |          |         |         |            |         | 2SC2188    |         | 35   | 50   | 500   |
|         |         |         |          |         |         |            |         | 2SC1687    |         | 25   | 30   | 550   |
|         |         |         |          |         |         |            |         | 2SC1688    |         | 40   | 30   | 550   |
| 2SC3931 | 2SC2404 |         |          |         |         |            | 2SC3315 | 2SC1047    | 2SC2377 | 20   | 20   | 650   |
|         |         |         |          |         |         |            |         |            |         | 30   | 50   | 900   |
|         |         |         |          |         |         |            |         | 2SC1789    |         | 18   | 50   | 900   |
| 2SC3932 | 2SC2480 |         |          |         |         |            | 2SC3354 | 2SC1215    | 2SC2636 | 20   | 50   | 1200  |
|         | 2SC4238 |         |          |         |         |            |         |            |         | 15   | 50   | 1500  |
| 2SC3933 | 2SC3077 |         |          |         |         | 2SC2360(H) |         |            |         | 15   | 20   | 900   |
|         | S9018   |         |          |         |         |            |         |            |         | 15   | 50   | 1100  |
|         | 2SC2845 |         |          |         |         |            |         | 2SC2671(H) |         | 12   | 70   | 4500  |
| 2SC3935 | 2SC3130 |         |          |         |         |            |         |            |         | 10   | 50   | 1900  |
| 2SC4239 |         |         |          |         |         |            |         |            |         | 10   | 50   | 2000  |
| 2SC4068 | 2SC3967 |         |          |         |         |            |         |            |         | 20   | 20   | 1500  |
|         | 2SC2734 |         |          |         |         |            |         |            |         | 11   | 50   | 3200  |
|         | 2SC3838 |         |          |         |         |            |         |            |         | 7    | 10   | 4000  |
| 2SC4410 | 2SC3707 |         |          |         |         |            |         |            |         | 12   | 30   | 4500  |
| 2SC3934 | 2SC3110 |         |          |         |         |            |         |            |         | 14   | 80   | 5500  |
| 2SC3937 | 2SC3704 |         |          |         |         |            |         | 2SC2671(F) |         | 10   | 100  | 6000  |
|         | GC3356  |         |          |         |         | GC3358     |         | GC3355     |         | 12   | 150  | 6000  |
|         |         |         |          |         |         |            |         |            |         | 12   | 100  | 6500  |
|         |         |         |          |         |         |            |         | 2SC3355    |         | 12   | 150  | 7000  |
|         |         |         |          |         |         |            |         |            |         | 12   | 100  | 7000  |
|         | 2SC3356 |         |          |         |         | BFR91A     |         |            |         | 12   | 80   | 7000  |
| 2SC5085 | 2SC5084 |         |          | 2SC5087 |         |            |         |            |         | 12   | 60   | 7000  |
| 2SC5463 |         |         |          |         |         |            |         |            |         | 12   | 30   | 7000  |
| 2SC5065 |         |         |          |         |         |            |         |            |         | 10   | 80   | 7000  |
|         | 2SC3829 |         |          |         |         |            |         |            |         | 10   | 50   | 7000  |
|         | 2SC4515 |         |          |         |         |            |         |            |         | 12   | 80   | 7500  |
|         |         |         |          |         |         |            |         |            |         | 12   | 100  | 7500  |
|         |         | BFP196  |          | BFU580  |         |            |         |            |         | 12   | 35   | 8000  |
| 2SC4228 | BFR182  | BFP182  |          |         |         |            |         |            |         | 12   | 65   | 8000  |
| BFR182W | BFR183  |         |          |         |         |            |         |            |         | 10   | 80   | 8000  |
| BFR183W | 2SC4516 |         |          |         |         |            |         |            |         | 10   | 50   | 8000  |
|         | PBR941  |         |          |         |         |            |         |            |         | 10   | 70   | 8000  |
|         | PBR951  | BRF9511 |          |         |         |            |         |            |         | 10   | 50   | 8500  |
| BRF947  |         |         |          |         |         |            |         |            |         | 10   | 70   | 8500  |
| PRF957  |         |         |          |         |         |            |         |            |         | 9    | 20   | 9000  |
| 2SC4899 |         |         |          |         |         |            |         |            |         | 9    | 50   | 9000  |
| 2SC4901 | 2SC5218 |         |          | 2SC4900 |         |            |         |            |         | 15   | 50   | 9000  |
|         | 2SC4591 |         |          |         |         |            |         |            |         | 10   | 65   | 9000  |
|         | 2SC3904 |         |          |         |         |            |         |            |         | 10   | 70   | 9000  |
|         | 2SC3983 |         |          | 2SC4094 |         |            |         |            |         | 10   | 70   | 9000  |
| BFS540  | BFR540  | BFG540X |          |         |         |            |         |            |         | 9    | 50   | 9500  |
| BFS520  | BFR520  | BFG520X |          |         |         |            |         |            |         | 10   | 35   | 10000 |
|         | 2SC4593 |         |          | 2SC4592 |         |            |         |            |         | 8    | 50   | 11000 |
|         | 2SC3685 |         |          |         |         |            |         |            |         |      |      |       |
|         |         |         |          | 2SC4926 |         |            |         |            |         |      |      |       |

## Current Regulative Diode

| 封装<br>Package<br><br>电流<br>Ip(mA)<br>min-max(typ) | S Series                                                                            | E Series                                                                            | L Series                                                                            |                                                                                     |
|---------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                                   | SOD- 123Pc :500mW                                                                   | TO-92-2LPc :500mW                                                                   | SOT-89-3L Pc :1000mW                                                                | TO-252-2L Pc :1500mW                                                                |
|                                                   |  |  |  |  |
| 0.01-0.06(0.03)                                   | S- 101LT                                                                            | E- 101L                                                                             | ※                                                                                   | ※                                                                                   |
| 0.05-0.21(0. 10)                                  | S- 101T                                                                             | E- 101                                                                              | ※                                                                                   | ※                                                                                   |
| 0.20-0.42 (0.30)                                  | S-301T                                                                              | E-301                                                                               | ※                                                                                   | ※                                                                                   |
| 0.40-0.63 (0.50)                                  | S-501T                                                                              | E-501                                                                               | ※                                                                                   | ※                                                                                   |
| 0.60-0.92 (0.70)                                  | S-701T                                                                              | E-701                                                                               | ※                                                                                   | ※                                                                                   |
| 0.88- 1.32 (1.00)                                 | S- 102T                                                                             | E- 102                                                                              | ※                                                                                   | ※                                                                                   |
| 1.28- 1.72 (1.50)                                 | S- 152T                                                                             | E- 152                                                                              | ※                                                                                   | ※                                                                                   |
| 1.68-2.32 (2.00)                                  | S-202T                                                                              | E-202                                                                               | ※                                                                                   | ※                                                                                   |
| 2.28-3. 10 (2.70)                                 | S-272T                                                                              | E-272                                                                               | ※                                                                                   | ※                                                                                   |
| 3.00-4. 10 (3.50)                                 | S-352T                                                                              | E-352                                                                               | ※                                                                                   | ※                                                                                   |
| 3.90-5. 10 (4.50)                                 | S-452T                                                                              | E-452                                                                               | ※                                                                                   | ※                                                                                   |
| 5.00-6.50 (5.60)                                  | S-562T                                                                              | E-562                                                                               | L-562                                                                               | ※                                                                                   |
| 6.56-9.84 (8.20)                                  | S-822T                                                                              | E-822                                                                               | L-822                                                                               | ※                                                                                   |
| 8.00- 12.0 (10.0)                                 | S- 103T                                                                             | E- 103                                                                              | L-103                                                                               | ※                                                                                   |
| 9.60- 14.4 (12.0)                                 | S- 123T                                                                             | E- 123                                                                              | L-123                                                                               | ※                                                                                   |
| 12.0- 18.0 (15.0)                                 | S- 153T                                                                             | E- 153                                                                              | L-153                                                                               | ※                                                                                   |
| 16.0-20.0 (18.0)                                  | S- 183T                                                                             | E- 183                                                                              | L-183                                                                               | ※                                                                                   |
| 18.0~22.0 (20.0)                                  | L-1822                                                                              | L-1822                                                                              | L-1822                                                                              | L-1822                                                                              |
| 22.0~27.0 (25.0)                                  | L-2227                                                                              | L-2227                                                                              | L-2227                                                                              | L-2227                                                                              |
| 27.0~33.0 (30.0)                                  | L-2733                                                                              | L-2733                                                                              | L-2733                                                                              | L-2733                                                                              |
| 33.0~39.0(36.0)                                   | L-3339                                                                              | L-3339                                                                              | L-3339                                                                              | L-3339                                                                              |
| 39.0~45.0(42.0)                                   |                                                                                     |                                                                                     | L-3945                                                                              | L-3945                                                                              |

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## Transistors list for audio

| Type       | Package |
|------------|---------|
| NC50N06    | TO-220  |
| CS50N06    | TO-220  |
| CS3205     | TO-220  |
| TIP41C     | TO-220  |
| TIP42C     | TO-220  |
| 2955       | TO-220  |
| 3055       | TO-220  |
| C2073      | TO-220  |
| A940       | TO-220  |
| C5198-0210 | TO-3PXX |
| A1941-0210 | TO-3PXX |
| C5198-0212 | TO-3PXX |
| A1941-0212 | TO-3PXX |
| C6011      | TO-3PXX |
| A2151      | TO-3PXX |
| A1962      | TO-3PXX |
| C5242      | TO-3PXX |
| TIP35C     | TO-247  |
| TIP36C     | TO-247  |
| A1943      | TO-3PL  |
| C5200      | TO-3PL  |
| A1266      | TO-92   |
| C3198      | TO-92   |

## SCR for Electric vehicle charger - switching power supply - Converter List

| Type  | VDRM(V) | VRRM(A) | IT(A) | ITSM(A) | IGTMAX (mA) | VTM    |       | Polarity       | Package |
|-------|---------|---------|-------|---------|-------------|--------|-------|----------------|---------|
|       |         |         |       |         |             | max(V) | IT(A) |                |         |
| BT151 | 600     | 600     | 8     | 80      | 12          | 1.7    | 16    | unidirectional | TO-220  |

## Triode for Electric vehicle charger - switching power supply - Converter

| Type   | Polarity | Ptot (W) | IC (A) | VCBO (V) | VCEO (V) | HFE min/max | Package     |
|--------|----------|----------|--------|----------|----------|-------------|-------------|
| 13009K | NPN      | 100      | 12     | 700      | 400      | 10/40       | TO-220/220F |
| D4518  | NPN      | 130      | 15     | 700      | 400      | 20/60       | TO-3PXX     |

## Schottky diode for Electric vehicle charger - switching power supply - Converter

| Type       | PD (W) | IO (A) | VR (V) | IR (μA) | VF      |       | Package |
|------------|--------|--------|--------|---------|---------|-------|---------|
|            |        |        |        |         | max (V) | IF(A) |         |
| MBR20100CT | 2      | 20     | 100    | 100     | 1.2     | 20    | TO-220  |

## MOSFET for Electric vehicle charger - switching power supply - Converter

| Type    | VDSS (V) | ID (A) | VGS (V) | VGS(th) (V) | RDS(ON) (Ω) | Package     |
|---------|----------|--------|---------|-------------|-------------|-------------|
| CS4N65  | 650      | 4      | ±30     | 2—4         | 2.8         | TO-220/220F |
| CS8N65  | 650      | 8      | ±30     | 2—4         | 1.3         | TO-220/220F |
| CS10N65 | 650      | 10     | ±30     | 2—4         | 1           | TO-220/220F |
| CS12N65 | 650      | 12     | ±30     | 2—4         | 0.8         | TO-220/220F |
| C60N10  | 100      | 60     | ±20     | 2—4         | 17m         | TO-220      |

## Switching transistors for energy-saving lamps and electronic ballasts (High voltage series)

| Type    | Polarity | Ptot (W) | IC (A) | VCBO (V) | VCEO (V) | HFE min/max | Package      |
|---------|----------|----------|--------|----------|----------|-------------|--------------|
| E13001  | NPN      | 8        | 0.4    | 600      | 400      | 10/40       | TO-92        |
| 13003ED | NPN      | 20       | 1      | 600      | 400      | 10/40       | TO-92/126SD  |
| 13003A  | NPN      | 20       | 1      | 600      | 400      | 10/40       | TO-126/126SD |
| 13003SD | NPN      | 20       | 1.5    | 600      | 400      | 10/40       | TO-92/126SD  |
| 13003D  | NPN      | 30       | 1.8    | 600      | 400      | 10/40       | TO-92/126SD  |
| 13003CD | NPN      | 60       | 1.5    | 600      | 400      | 10/40       | TO-126/126SD |
| 13003   | NPN      | 60       | 1.5    | 600      | 400      | 10/40       | TO-220       |
| 13005D  | NPN      | 75       | 8      | 600      | 400      | 10/40       | TO-126SD/220 |
| 13005   | NPN      | 75       | 8      | 600      | 400      | 10/40       | TO-220       |
| 13007FI | NPN      | 80       | 10     | 700      | 400      | 10/40       | TO-220       |
| 13009K  | NPN      | 100      | 12     | 700      | 400      | 10/40       | TO-220       |

## Switching transistors for energy-saving lamps and electronic ballasts (Low voltage series)

| Type    | Polarity | Ptot (W) | IC (A) | VCBO (V) | VCEO (V) | HFE min/max | Package         |
|---------|----------|----------|--------|----------|----------|-------------|-----------------|
| 13002DL | NPN      | 12       | 1.5    | 400      | 200      | 10/40       | TO-92           |
| 6863DL  | NPN      | 18       | 4      | 400      | 200      | 10/40       | TO-92/126/126SD |

## Transistors for high power LED drive

| Type    | Polarity | Ptot (W) | IC (A) | VCBO (V) | VCEO (V) | HFE min/max | Package      |
|---------|----------|----------|--------|----------|----------|-------------|--------------|
| 13003ED | NPN      | 20       | 1.8    | 700      | 400      | 15/30       | TO-92/126SD  |
| 13003HD | NPN      | 30       | 3      | 680      | 380      | 15/30       | TO-92/126SD  |
| 13005CD | NPN      | 50       | 4      | 690      | 365      | 15/35       | TO-126SD/220 |

## IGBT List - Internal insulation Packaging

| Part No.        | BVCE(V) | IC(@100°C ) | VTH  | IF(@100°C ) | VC Esat | Package                      |
|-----------------|---------|-------------|------|-------------|---------|------------------------------|
| YZPST-G15T60PI  | 600V    | 15A         | 5.5V | 15A         | 1.75V   | TO-220C-3 (inner insulation) |
| YZPST-G20T60AI  | 600V    | 20A         | 5.5V | 20A         | 1.85V   | TO-3P-3(inner insulation)    |
| YZPST-G25T60AI  | 600V    | 25A         | 5.5V | 25A         | 2.1V    | TO-3P-3 ( inner insulation ) |
| YZPST-G40T60AI  | 600V    | 40A         | 5.5V | 40A         | 2.3V    | TO-3P-3 ( inner insulation ) |
| YZPST-G15N120AI | 1200V   | 15A         | 5.0V | 15A         | 2.2V    | TO-3P-3(inner insulation)    |
| YZPST-G25N120AI | 1200V   | 25A         | 5.0V | 25A         | 2.2V    | TO-3P-3 ( inner insulation ) |

## IGBT List

| Part No.         | BVCE(V) | IC(@100°C ) | VTH  | IF(@100°C ) | VC Esat | Package |
|------------------|---------|-------------|------|-------------|---------|---------|
| YZPST-G6T60KS    | 600V    | 6A          | 5.0V | 6A          | 1.75V   | TO-263  |
| YZPST-G6T60DS    | 600V    | 6A          | 5.0V | 6A          | 1.75V   | TO-252  |
| YZPST-G10T60FS   | 600V    | 10A         | 5.0V | 10A         | 1.75V   | TO-220F |
| YZPST-G10T60KS   | 600V    | 10A         | 5.0V | 10A         | 1.75V   | TO-263  |
| YZPST-G15T60FS   | 600V    | 15A         | 5.5V | 15A         | 1.75V   | TO-220F |
| YZPST-G15T60KS   | 600V    | 15A         | 5.5V | 15A         | 1.75V   | TO-263  |
| YZPST-G15T60PS   | 600V    | 15A         | 5.5V | 15A         | 1.75V   | TO-220C |
| YZPST-G15T60HS   | 600V    | 15A         | 5.5V | 15A         | 1.75V   | TO-247  |
| YZPST-G20T60FS   | 600V    | 20A         | 5.5V | 20A         | 1.85V   | TO-220F |
| YZPST-G20T60KS   | 600V    | 20A         | 5.5V | 20A         | 1.85V   | TO-263  |
| YZPST-G20T60PS   | 600V    | 20A         | 5.5V | 20A         | 1.85V   | TO-220C |
| YZPST-G20T60HS   | 600V    | 20A         | 5.5V | 20A         | 1.85V   | TO-247  |
| YZPST-G25T60FS   | 600V    | 25A         | 5.5V | 25A         | 2.1V    | TO-220F |
| YZPST-G25T60KS   | 600V    | 25A         | 5.5V | 25A         | 2.1V    | TO-263  |
| YZPST-G25T60PS   | 600V    | 25A         | 5.5V | 25A         | 2.1V    | TO-220C |
| YZPST-G25T60HS   | 600V    | 25A         | 5.5V | 25A         | 2.1V    | TO-247  |
| YZPST-G30T60HS   | 600V    | 30A         | 5.0V | 30A         | 2.1V    | TO-247  |
| YZPST-G40T60HS   | 600V    | 40A         | 5.5V | 40A         | 2.3V    | TO-247  |
| YZPST-G50T60HS   | 600V    | 50A         | 5.5V | 50A         | 2.0V    | TO-247  |
| YZPST-G60T60HS   | 600V    | 60A         | 5.5V | 60A         | 1.85V   | TO-247  |
| YZPST-G80T60LS   | 600V    | 80A         | 5.5V | 80A         | 1.55V   | TO-264  |
| YZPST-G10T120HS  | 1200V   | 10A         | 5.5V | 10A         | 2.1V    | TO-247  |
| YZPST-G10T120FS  | 1200V   | 10A         | 5.5V | 10A         | 2.1V    | TO-220F |
| YZPST-G10T120PS  | 1200V   | 10A         | 5.5V | 10A         | 2.1V    | TO-220C |
| YZPST-G15N120HS  | 1200V   | 15A         | 5.0V | 15A         | 2.2V    | TO-247  |
| YZPST-G15N120HS2 | 1200V   | 15A         | 5.0V | 15A         | 2.2V    | TO-247  |
| YZPST-G15T120HS  | 1200V   | 15A         | 5.5V | 15A         | 1.9V    | TO-247  |
| YZPST-G25N120HS  | 1200V   | 25A         | 5.0V | 25A         | 2.2V    | TO-247  |
| YZPST-G25T120HS  | 1200V   | 25A         | 5.5V | 25A         | 2.0V    | TO-247  |
| YZPST-G30N120HS2 | 1200V   | 30A         | 5.0V | 30A         | 2.2V    | TO-247  |
| YZPST-G30N120HS3 | 1200V   | 30A         | 5.0V | 30A         | 2.2V    | TO-247  |
| YZPST-G40T120HS  | 1200V   | 40A         | 5.5V | 40A         | 2.1V    | TO-247  |
| YZPST-G40T120HP  | 1200V   | 40A         | 5.0V | 40A         | 2.1V    | TO-247  |
| YZPST-G40T120HW  | 1200V   | 40A         | 5.5V | 40A         | 1.9V    | TO-247  |
| YZPST-G40T120HN  | 1200V   | 40A         | 5.5V | 40A         | 1.9V    | TO-247  |
| YZPST-G50N120LS  | 1200V   | 50A         | 5.0V | 50A         | 2.1V    | TO-264  |
| YZPST-G75T120LS  | 1200V   | 75A         | 5.5V | 75A         | 1.95V   | TO-264  |

## Planar High-Voltage MOSFET

| Part No.                | VDS (V) | ID (A) | RDS(ON) (Ω) | VTH(V) | Package                           |
|-------------------------|---------|--------|-------------|--------|-----------------------------------|
| YZPST-FM9N50C           | 500     | 9      | 0.65        | 3      | TO-220F-3                         |
| YZPST-FM11N50C          | 500     | 11     | 0.48        | 3      | TO-220F-3                         |
| YZPST-FM13N50C          | 500     | 13     | 0.40        | 3      | TO-220F-3                         |
| YZPST-FM16N50C          | 500     | 16     | 0.37        | 3      | TO-220F-3                         |
| YZPST-FM18N50C          | 500     | 18     | 0.33        | 4      | TO-220F-3                         |
| YZPST-FM/AM/HM20N50C    | 500     | 20     | 0.26        | 4      | TO-220F-3; TO-3P; TO-247          |
| YZPST-AM24N50C          | 500     | 24     | 0.22        | 4      | TO-3P                             |
| YZPST-AM25N50C          | 500     | 25     | 0.15        | 3      | TO-3P                             |
| YZPST-AM50N50C          | 500     | 50     | 0.09        | 3      | TO-3P                             |
| YZPST-UC5N60S           | 600     | 5      | 1.80        | 3      | TO-251                            |
| YZPST-PC/FM5N60C        | 600     | 5      | 1.80        | 3      | TO-220C-3; TO-220F-3              |
| YZPST-PC/FM8N60C        | 600     | 8      | 1.03        | 3      | TO-220C-3; TO-220F-3              |
| YZPST-PC/FM10N60C       | 600     | 10     | 0.68        | 3      | TO-220C-3; TO-220F-3              |
| YZPST-PC/FM12N60C       | 600     | 12     | 0.57        | 3      | TO-220C-3; TO-220F-3              |
| YZPST-FM18N60C          | 600     | 18     | 0.50        | 4      | TO-220F-3                         |
| YZPST-PC/AM/FH/HM20N60C | 600     | 20     | 0.37        | 3      | TO-220C-3; TO-3P; TO-220F; TO-247 |
| YZPST-AM25N60C          | 600     | 25     | 0.28        | 3      | TO-3P                             |
| YZPST-AM/FH30N60C       | 600     | 30     | 0.21        | 3      | TO-3P; TO-247                     |
| YZPST-AM/FH35N60C       | 600     | 35     | 0.12        | 3      | TO-3P; TO-247                     |
| YZPST-UC4N65H           | 650     | 4      | 2.10        | 3      | TO-251                            |
| YZPST-FC5N65C           | 650     | 5      | 2.19        | 3      | TO-220F-3                         |
| YZPST-FC7N65C           | 650     | 7      | 1.00        | 3      | TO-220F-3                         |
| YZPST-FC8N65C           | 650     | 8      | 1.12        | 3      | TO-220F-3                         |
| YZPST-FC10N65C          | 650     | 10     | 0.78        | 3      | TO-220F-3                         |
| YZPST-FC13N65C          | 650     | 13     | 0.67        | 3      | TO-220F-3                         |
| YZPST-PC/FC18N65C       | 650     | 18     | 0.56        | 3.5    | TO-220C-3; TO-220F-3              |
| YZPST-FC/PC/AM20N65C    | 650     | 20     | 0.42        | 4      | TO-220C-3; TO-220F-3; TO-3P       |
| YZPST-FM6N70C           | 700     | 6      | 1.33        | 3      | TO-220F-3                         |
| YZPST-FM5N80C           | 800     | 5      | 2.30        | 3      | TO-220F-3                         |
| YZPST-FM8N80C           | 800     | 8      | 1.36        | 4      | TO-220F-3                         |
| YZPST-PC/FM10N80C       | 800     | 10     | 1.08        | 4      | TO-220C-3; TO-220F-3              |
| YZPST-FM12N80C          | 800     | 12     | 0.73        | 4      | TO-220F-3                         |
| YZPST-FM5N90C           | 900     | 5      | 2.10        | 3      | TO-220F-3                         |
| YZPST-PC/FM7N90C        | 900     | 7      | 1.60        | 4      | TO-220C-3; TO-220F-3              |
| YZPST-QM3N150C          | 1500    | 3      | 5.50        | 3.5    | TO-3PH                            |
| YZPST-FM3N150C          | 1500    | 3      | 5.50        | 3.5    | TO-220F-3                         |

# Power Transistors

## IGBT Product List

|                | 产品型号<br>Part Number                                | 电压等级BV | 额定电流<br>Ic@100℃ | 封装形式<br>Package          | 应用领域<br>Application                              | 对标英飞凌产品型号<br>Comparable Infineon part number |
|----------------|----------------------------------------------------|--------|-----------------|--------------------------|--------------------------------------------------|----------------------------------------------|
| 650V<br>单管产品系列 | YZPST-F15N65T1<br>YZPST-K15N65T1<br>YZPST-P15N65T1 | 650V   | 15A             | TO220F<br>TO263<br>TO220 | Frequency converter<br>Inverter<br>Motor Control | IKP15N60T<br>IKP15N65H5                      |
|                | YZPST-F20N65T1                                     | 650V   | 20A             | TO220F                   | Frequency converter<br>Inverter<br>Motor Control | IRGB4620D                                    |
|                | YZPST-W30N65F1                                     | 650V   | 30A             | TO247                    | Frequency converter<br>Inverter<br>Motor Control | IKW30N60H3                                   |
|                | YZPST-W40N65F1                                     | 650V   | 40A             | TO247                    | Frequency converter<br>Inverter<br>Motor Control | IKW40N60H3<br>IRGP4640D<br>AUIRGP4062D       |
|                | YZPST-W50N65F1A                                    | 650V   | 50A             | TO247                    | Welding Machine<br>Inverter<br>UPS               | IKW50N60H3                                   |
|                | YZPST-W50N65F1A1                                   | 650V   | 50A             | TO247                    | Welding Machine<br>Inverter<br>UPS               | IKW50N65H5                                   |
|                | YZPST-W50N65T1                                     | 650V   | 50A             | TO247                    | Welding Machine<br>Inverter<br>UPS               | IKW50N60T                                    |
|                | YZPST-W60N65F1A1                                   | 650V   | 60A             | TO247                    | Welding Machine<br>Inverter<br>UPS               | IKW60N60H3                                   |
|                | YZPST-W60N65T1                                     | 650V   | 60A             | TO247                    | Welding Machine<br>Inverter<br>UPS               | IKW60N60H3                                   |
|                | YZPST-W75N65F1A                                    | 650V   | 75A             | TO247                    | Welding Machine<br>Inverter<br>UPS               | IKW75N60H3                                   |
|                | YZPST-W75N65T1                                     | 650V   | 75A             | TO247                    | Welding Machine<br>Inverter<br>UPS               | IKW75N60T                                    |
|                | YZPST-L200N65                                      | 650V   | 200A            | TO264<br>Small Module    | High Frequency Switch                            | n/a                                          |

YZPST

YANGZHOU POSITIONING TECH. CO., LTD

|                 | 产品型号<br>Part Number                    | 电压等级<br>BV | 额定电流<br>Ic@100℃ | 封装形式<br>Package | 应用领域<br>Application                | 对标英飞凌产品型号<br>Comparable Infineon part number |
|-----------------|----------------------------------------|------------|-----------------|-----------------|------------------------------------|----------------------------------------------|
| 1200V<br>单管产品系列 | YZPST-W10N120T1                        | 1200V      | 10A             | TO247           | Motor Drive<br>UPS                 | IKW08N120T2                                  |
|                 | YZPST-W15N120T1                        | 1200V      | 15A             | TO247           | Motor Drive<br>UPS                 | IKW15N120T2                                  |
|                 | YZPST-W15N120F1A<br>YZPST-W15N120F1A1  | 1200V      | 15A             | TO247           | Induction Heating<br>Inverter      | IKW15N120H3<br>IHW15N120R3                   |
|                 | YZPST-W20N120F1                        | 1200V      | 20A             | TO247           | Induction Heating                  | IHW20N120R3<br>IHW20N120R5                   |
|                 | YZPST-W25N120F1A1                      | 1200V      | 25A             | TO247           | Welding Machine<br>Inverter<br>UPS | IKW25N120H3                                  |
|                 | YZPST-W25N120U1                        | 1200V      | 25A             | TO247           | Welding Machine<br>Inverter<br>UPS | IKW25N120H3                                  |
|                 | YZPST-W25N120T1                        | 1200V      | 25A             | TO247           | Motor Drive<br>UPS                 | IKW25N120T2                                  |
|                 | YZPST-W40N120F1A                       | 1200V      | 40A             | TO247           | Welding Machine<br>Inverter<br>UPS | IKW40N120H3                                  |
|                 | YZPST-W40N120F1A1<br>YZPST-W40N120F1A2 | 1200V      | 40A             | TO247           | Welding Machine<br>Inverter<br>UPS | IKW40N120H3                                  |
|                 | YZPST-W40N120F1C                       | 1200V      | 40A             | TO247           | Welding Machine<br>Inverter<br>UPS | IKW40N120H3                                  |
|                 | YZPST-L40N120F1A                       | 1200V      | 40A             | TO264           | Welding Machine<br>Inverter<br>UPS | n/a                                          |
|                 | YZPST-W40N120T1B                       | 1200V      | 40A             | TO247           | Motor Drive<br>UPS                 | IKW40N120T2                                  |
|                 | YZPST-W40N120T1B1                      | 1200V      | 40A             | TO247           | Motor Drive<br>UPS                 | IKW40N120T2                                  |
|                 | YZPST-W40N120T2                        | 1200V      | 40A             | TO247           | Motor Drive<br>UPS                 | IKW40N120T2                                  |
|                 | YZPST-40N120T1                         | 1200V      | 40A             | TO247           | Automotive Motor<br>Drive          | AUIRG4PH50S                                  |
| 1350V<br>单管产品系列 | YZPST-W15N135F1A                       | 1350V      | 15A             | TO247           | Induction Heating                  | IHW15N120R3                                  |
|                 | YZPST-W25N135F1A                       | 1350V      | 25A             | TO247           | Induction Heating                  | IHW20N135R3<br>IHW20N135R5                   |
|                 | YZPST-W25N135F2                        | 1350V      | 25A             | TO247           | Induction Heating                  | IHW20N135R3<br>IHW20N135R5                   |
|                 | YZPST-W30N135F1                        | 1350V      | 30A             | TO247           | Induction Heating                  | IHW30N135R3                                  |

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# Power Transistors

YZPST

YANGZHOU POSITIONING TECH. CO., LTD

## 600V IGBT Products List

| Type            | VCES   | IC     | VCE(sat) | E(on+off) | Rth(J-C) | Packages | Circuit |
|-----------------|--------|--------|----------|-----------|----------|----------|---------|
|                 | Tc=25℃ | Tc=80℃ | Tj=25℃   | Tj=125℃   |          |          |         |
|                 | (V)    | (A)    | (V)      | (mJ)      |          |          |         |
| YZPST 100SG60TK | 600    | 100    | 1.9      | 3.70      | 0.20     | F4       |         |
| YZPST 600SG60TK | 600    | 600    | 1.7      | 32.50     | 0.25     | G3       |         |
| YZPST 800SG60TK | 600    | 800    | 1.7      | 38.00     | 0.25     | G3       |         |
| YZPST 600SG60TK | 600    | 600    | 1.9      | 25.00     | 0.10     | G3       |         |
| YZPST 800SG60TK | 600    | 800    | 1.9      | 32.90     | 0.08     | G3       |         |
| YZPST 50HF60TE  | 600    | 50     | 1.7      | 2.00      | 0.47     | G1       |         |
| YZPST 75HF60TE  | 600    | 75     | 1.7      | 6.00      | 0.60     | G1       |         |
| YZPST 100HF60TE | 600    | 100    | 1.7      | 9.00      | 0.45     | G1       |         |
| YZPST 150HF60TE | 600    | 150    | 1.7      | 14.00     | 0.30     | G1       |         |
| YZPST 200HF60TE | 600    | 200    | 1.7      | 19.00     | 0.25     | G1       |         |
| YZPST 300HF60TE | 600    | 300    | 1.7      | 32.50     | 0.25     | G2       |         |
| YZPST 400HF60TE | 600    | 400    | 1.7      | 38.00     | 0.25     | G2       |         |
| YZPST 50HF60TK  | 600    | 50     | 1.9      | 3.00      | 0.25     | G1       |         |
| YZPST 75HF60TK  | 600    | 75     | 1.9      | 4.50      | 0.21     | G1       |         |
| YZPST 100HF60TK | 600    | 100    | 1.9      | 7.00      | 0.17     | G1       |         |
| YZPST 150HF60TK | 600    | 150    | 1.9      | 11.50     | 0.14     | G1       |         |
| YZPST 200HF60TK | 600    | 200    | 1.9      | 16.40     | 0.12     | G1       |         |
| YZPST 300HF60TK | 600    | 300    | 1.9      | 25.00     | 0.10     | G2       |         |
| YZPST 400HF60TK | 600    | 400    | 1.9      | 32.90     | 0.08     | G2       |         |
| YZPST 450HF60TE | 650    | 450    | 1.7      | 45.00     | 0.09     | G8       |         |
| YZPST 600HF60TE | 650    | 600    | 1.7      | 57.00     | 0.07     | G8       |         |
| YZPST 20FF60TE  | 600    | 20     | 1.7      | 1.20      | 1.27     | E1-FF    |         |
| YZPST 30FF60TE  | 600    | 30     | 1.7      | 1.80      | 0.85     | E1-FF    |         |
| YZPST 50FF60TE  | 600    | 50     | 1.7      | 2.70      | 0.75     | E1-FF    |         |
| YZPST 20FF60TK  | 600    | 20     | 1.9      | 1.00      | 0.06     | E1-FF    |         |
| YZPST 30FF60TK  | 600    | 30     | 1.9      | 1.50      | 0.71     | E1-FF    |         |
| YZPST 50FF60TK  | 600    | 50     | 1.9      | 3.00      | 0.65     | E1-FF    |         |

| Type            | VCES   | IC     | VCE(sat) | E(on+off) | Rth(J-C) | Packages | Circuit |
|-----------------|--------|--------|----------|-----------|----------|----------|---------|
|                 | Tc=25℃ | Tc=80℃ | Tj=25℃   | Tj=125℃   |          |          |         |
|                 | (V)    | (A)    | (V)      | (mJ)      |          |          |         |
| YZPST 20PI60TE  | 600    | 20     | 1.7      | 1.20      | 0.98     | E1-PI    |         |
| YZPST 30PI60TE  | 600    | 30     | 1.7      | 1.80      | 0.55     | E1-PI    |         |
| YZPST 50PI60TE  | 600    | 50     | 1.7      | 2.70      | 0.39     | E2-PI    |         |
| YZPST 20PI60TK  | 600    | 20     | 1.9      | 1.07      | 0.76     | E1-PI    |         |
| YZPST 30PI60TK  | 600    | 30     | 1.9      | 1.50      | 0.42     | E1-PI    |         |
| YZPST 50PI60TK  | 600    | 50     | 1.9      | 3.00      | 0.39     | E2-PI    |         |
| YZPST 50FF60TE  | 600    | 50     | 1.7      | 2.30      | 0.50     | G4-FF    |         |
| YZPST 75FF60TE  | 600    | 75     | 1.7      | 5.90      | 0.38     | G4-FF    |         |
| YZPST 100FF60TE | 600    | 100    | 1.7      | 9.00      | 0.30     | G4-FF    |         |
| YZPST 100FF60TE | 600    | 100    | 1.7      | 9.00      | 0.30     | G5-FF    |         |
| YZPST 150FF60TE | 650    | 150    | 1.7      | 14.30     | 0.24     | G5-FF    |         |
| YZPST 200FF60TE | 650    | 200    | 1.7      | 19.50     | 0.19     | G5-FF    |         |
| YZPST 50FF60TK  | 600    | 50     | 1.9      | 3.10      | 0.62     | G4-FF    |         |
| YZPST 75FF60TK  | 600    | 75     | 1.9      | 4.52      | 0.50     | G4-FF    |         |
| YZPST 100FF60TK | 600    | 100    | 1.9      | 7.00      | 0.38     | G5-FF    |         |
| YZPST 150FF60TK | 600    | 150    | 1.9      | 11.60     | 0.28     | G5-FF    |         |
| YZPST 200FF60TK | 600    | 200    | 1.9      | 16.50     | 0.24     | G5-FF    |         |
| YZPST 50PI60TE  | 600    | 50     | 1.7      | 2.70      | 0.93     | G4-PI    |         |
| YZPST 75PI60TE  | 600    | 75     | 1.7      | 6.00      | 0.60     | G4-PI    |         |
| YZPST 100PI60TE | 600    | 100    | 1.7      | 13.60     | 0.45     | G5-PI    |         |
| YZPST 150FF60TE | 600    | 150    | 1.7      | 25.00     | 0.36     | G5-PI    |         |
| YZPST 50PI60TK  | 600    | 50     | 1.9      | 3.15      | 0.55     | G4-PI    |         |
| YZPST 50PI60TK  | 600    | 50     | 1.9      | 3.15      | 0.55     | G5-PI    |         |
| YZPST 75PI60TK  | 600    | 75     | 1.9      | 4.50      | 0.40     | G5-PI    |         |
| YZPST 100PI60TK | 600    | 100    | 1.9      | 7.10      | 0.30     | G5-PI    |         |
| YZPST 150ML60TE | 600    | 150    | 1.7      | 14.00     | 0.21     | E2       |         |
| YZPST 200ML65TE | 650    | 200    | 1.7      | 19.00     | 0.16     | G7       |         |
| YZPST 300ML65TE | 650    | 300    | 1.7      | 32.50     | 0.11     | G7       |         |
| YZPST 150ML65TK | 650    | 150    | 1.9      | 11.50     | 0.14     | E2       |         |
| YZPST 200ML65TK | 650    | 200    | 1.9      | 16.40     | 0.12     | G7       |         |
| YZPST 300ML65TK | 650    | 300    | 1.9      | 25.00     | 0.10     | G7       |         |
| YZPST 300MP65TE | 650    | 300    | 1.7      | 32.6      | 0.146    | G8       |         |
| YZPST 400MP65TE | 650    | 400    | 1.7      | 38        | 0.12     | G8       |         |
| YZPST 300MP65TE | 650    | 500    | 1.7      | 32.6      | 0.146    | G8       |         |
| YZPST 400MP65TE | 650    | 600    | 1.7      | 38        | 0.12     | G8       |         |

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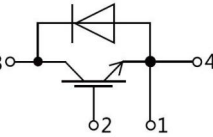
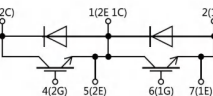
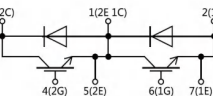
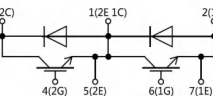
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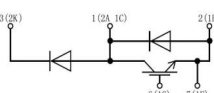
# Power Transistors

## 1200V IGBT Products List

| Type             | VCES   | IC     | VCE(sat) | E(on+off) | Rth(J-C) | Packages | Circuit                                                                           |
|------------------|--------|--------|----------|-----------|----------|----------|-----------------------------------------------------------------------------------|
|                  | Tc=25℃ | Tc=80℃ | Tj=25℃   | Tj=125℃   |          |          |                                                                                   |
|                  | (V)    | (A)    | (V)      | (mJ)      | (K/W)    |          |                                                                                   |
| YZPST 50SG120TE  | 1200   | 50     | 1.9      | 12.50     | 0.3      | F4       |  |
| YZPST 75SG120TE  | 1200   | 75     | 1.9      | 16.80     | 0.19     | F4       |                                                                                   |
| YZPST 300SG120TE | 1200   | 300    | 1.9      | 36.00     | 0.12     | G3       |                                                                                   |
| YZPST 400SG120TE | 1200   | 400    | 1.9      | 39.00     | 0.11     | G3       |                                                                                   |
| YZPST 600SG120TE | 1200   | 600    | 1.9      | 64.80     | 0.08     | G3       |                                                                                   |
| YZPST 50SG120TK  | 1200   | 50     | 2.2      | 9.90      | 0.28     | F4       |                                                                                   |
| YZPST 75SG120TK  | 1200   | 75     | 2.2      | 12.90     | 0.16     | F4       |                                                                                   |
| YZPST 300SG120TK | 1200   | 300    | 2.2      | 25.00     | 0.13     | G3       |                                                                                   |
| YZPST 400SG120TK | 1200   | 400    | 2.2      | 30.00     | 0.10     | G3       |                                                                                   |
| YZPST 600SG120TK | 1200   | 600    | 2.2      | 48.00     | 0.07     | G3       |                                                                                   |
| YZPST 50HF120S   | 1200   | 50     | 1.9      | 11.60     | 0.35     | G1       |  |
| YZPST 75HF120S   | 1200   | 75     | 1.9      | 18.40     | 0.29     | G1       |                                                                                   |
| YZPST 100HF120S  | 1200   | 100    | 1.9      | 19.60     | 0.25     | G1       |                                                                                   |
| YZPST 150HF120S  | 1200   | 150    | 1.9      | 33.00     | 0.12     | G2       |                                                                                   |
| YZPST 200HF120S  | 1200   | 200    | 1.9      | 44.00     | 0.09     | G2       |                                                                                   |
| YZPST 300HF120S  | 1200   | 300    | 1.9      | 64.00     | 0.60     | G2       |                                                                                   |
| YZPST 50HF120TE  | 1200   | 50     | 1.9      | 12.50     | 0.28     | G1       |                                                                                   |
| YZPST 75HF120TE  | 1200   | 75     | 1.9      | 16.80     | 0.23     | G1       |                                                                                   |
| YZPST 100HF120TE | 1200   | 100    | 1.9      | 18.40     | 0.19     | G1       |                                                                                   |
| YZPST 150HF120TE | 1200   | 150    | 1.9      | 36.00     | 0.12     | G2       |                                                                                   |
| YZPST 200HF120TE | 1200   | 200    | 1.9      | 39.00     | 0.11     | G2       |  |
| YZPST 300HF120TE | 1200   | 300    | 1.9      | 64.80     | 0.08     | G2       |                                                                                   |
| YZPST 400HF120TE | 1200   | 400    | 1.9      | 85.00     | 0.51     | G2       |                                                                                   |
| YZPST 50HF120TK  | 1200   | 50     | 2.2      | 9.90      | 0.29     | G1       |                                                                                   |
| YZPST 75HF120TK  | 1200   | 75     | 2.2      | 12.90     | 0.23     | G1       |                                                                                   |
| YZPST 100HF120TK | 1200   | 100    | 2.2      | 13.60     | 0.20     | G1       |                                                                                   |
| YZPST 150HF120TK | 1200   | 150    | 2.2      | 25.00     | 0.13     | G2       |                                                                                   |
| YZPST 200HF120TK | 1200   | 200    | 2.2      | 30.00     | 0.10     | G2       |                                                                                   |
| YZPST 300HF120TK | 1200   | 300    | 2.2      | 48.00     | 0.07     | G2       |                                                                                   |
| YZPST 400HF120TK | 1200   | 400    | 2.2      | 64.00     | 0.05     | G2       |                                                                                   |
| YZPST 40HF120NU  | 1200   | 40     | 3.1      | 8.10      | 0.38     | M1       |  |
| YZPST 50HF120NU  | 1200   | 50     | 3.1      | 8.60      | 0.35     | G1       |                                                                                   |
| YZPST 75HF120NU  | 1200   | 75     | 3.1      | 9.20      | 0.30     | G1       |                                                                                   |
| YZPST 100HF120NU | 1200   | 100    | 3.1      | 12.70     | 0.25     | G1       |                                                                                   |
| YZPST 150HF120NU | 1200   | 150    | 3.1      | 19.00     | 0.12     | G2       |                                                                                   |
| YZPST 200HF120NU | 1200   | 200    | 3.1      | 30.00     | 0.09     | G2       |                                                                                   |
| YZPST 300HF120NU | 1200   | 300    | 3.1      | 51.00     | 0.06     | G2       |                                                                                   |

YZPST

YANGZHOU POSITIONING TECH. CO., LTD

| Type             | VCES   | IC     | VCE(sat) | E(on+off) | Rth(J-C) | Packages | Circuit                                                                             |
|------------------|--------|--------|----------|-----------|----------|----------|-------------------------------------------------------------------------------------|
|                  | Tc=25℃ | Tc=80℃ | Tj=25℃   | Tj=125℃   |          |          |                                                                                     |
|                  | (V)    | (A)    | (V)      | (mJ)      | (K/W)    |          |                                                                                     |
| YZPST 50CU120S   | 1200   | 50     | 1.9      | 11.60     | 0.35     | G1       |  |
| YZPST 75CU120S   | 1200   | 75     | 1.9      | 18.40     | 0.29     | G1       |                                                                                     |
| YZPST 100CU120S  | 1200   | 100    | 1.9      | 19.60     | 0.25     | G1       |                                                                                     |
| YZPST 150CU120S  | 1200   | 150    | 1.9      | 33.00     | 0.12     | G2       |                                                                                     |
| YZPST 200CU120S  | 1200   | 200    | 1.9      | 44.00     | 0.09     | G2       |                                                                                     |
| YZPST 300CU120S  | 1200   | 300    | 1.9      | 64.00     | 0.60     | G2       |                                                                                     |
| YZPST 50CU120TE  | 1200   | 50     | 1.9      | 12.50     | 0.28     | G1       |                                                                                     |
| YZPST 75CU120TE  | 1200   | 75     | 1.9      | 16.80     | 0.23     | G1       |                                                                                     |
| YZPST 100CU120TE | 1200   | 100    | 1.9      | 18.40     | 0.19     | G1       |                                                                                     |
| YZPST 150CU120TE | 1200   | 150    | 1.9      | 36.00     | 0.12     | G2       |                                                                                     |
| YZPST 200CU120TE | 1200   | 200    | 1.9      | 39.00     | 0.11     | G2       |                                                                                     |
| YZPST 300CU120TE | 1200   | 300    | 1.9      | 64.80     | 0.08     | G2       |                                                                                     |
| YZPST 400CU120TE | 1200   | 400    | 1.9      | 85.00     | 0.51     | G2       |                                                                                     |
| YZPST 50CU120TK  | 1200   | 50     | 2.2      | 9.90      | 0.29     | G1       |                                                                                     |
| YZPST 75CU120TK  | 1200   | 75     | 2.2      | 12.90     | 0.23     | G1       |                                                                                     |
| YZPST 100CU120TK | 1200   | 100    | 2.2      | 13.60     | 0.20     | G1       |                                                                                     |
| YZPST 150CU120TK | 1200   | 150    | 2.2      | 25.00     | 0.13     | G2       |                                                                                     |
| YZPST 200CU120TK | 1200   | 200    | 2.2      | 30.00     | 0.10     | G2       |                                                                                     |
| YZPST 300CU120TK | 1200   | 300    | 2.2      | 48.00     | 0.07     | G2       |                                                                                     |
| YZPST 400CU120TK | 1200   | 400    | 2.2      | 64.00     | 0.05     | G2       |                                                                                     |
| YZPST 40CU120NU  | 1200   | 40     | 3.1      | 8.10      | 0.38     | M1       |                                                                                     |
| YZPST 50CU120NU  | 1200   | 50     | 3.1      | 8.60      | 0.35     | G1       |                                                                                     |
| YZPST 75CU120NU  | 1200   | 75     | 3.1      | 9.20      | 0.30     | G1       |                                                                                     |
| YZPST 100CU120NU | 1200   | 100    | 3.1      | 12.70     | 0.25     | G1       |                                                                                     |
| YZPST 150CU120NU | 1200   | 150    | 3.1      | 19.00     | 0.12     | G2       |                                                                                     |
| YZPST 200CU120NU | 1200   | 200    | 3.1      | 30.00     | 0.09     | G2       |                                                                                     |
| YZPST 300CU120NU | 1200   | 300    | 3.1      | 51.00     | 0.06     | G2       |                                                                                     |

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# Power Transistors

## 1200V IGBT Products List

YZPST

YANGZHOU POSITIONING TECH. CO., LTD

| Type             | VCES    | IC      | VCE(sat) | E(on+off) | Rth(J-C) | Packages | Circuit |
|------------------|---------|---------|----------|-----------|----------|----------|---------|
|                  | Tc=25°C | Tc=80°C | Tj=25°C  | Tj=125°C  |          |          |         |
|                  | (V)     | (A)     | (V)      | (mJ)      | (K/W)    |          |         |
| YZPST 50CU120S   | 1200    | 50      | 1.9      | 11.60     | 0.35     | G1       |         |
| YZPST 75CU120S   | 1200    | 75      | 1.9      | 18.40     | 0.29     | G1       |         |
| YZPST 100CU120S  | 1200    | 100     | 1.9      | 19.60     | 0.25     | G1       |         |
| YZPST 150CU120S  | 1200    | 150     | 1.9      | 33.00     | 0.12     | G2       |         |
| YZPST 200CU120S  | 1200    | 200     | 1.9      | 44.00     | 0.09     | G2       |         |
| YZPST 300CU120S  | 1200    | 300     | 1.9      | 64.00     | 0.60     | G2       |         |
| YZPST 50CU120TE  | 1200    | 50      | 1.9      | 12.50     | 0.28     | G1       |         |
| YZPST 75CU120TE  | 1200    | 75      | 1.9      | 16.80     | 0.23     | G1       |         |
| YZPST 100CU120TE | 1200    | 100     | 1.9      | 18.40     | 0.19     | G1       |         |
| YZPST 150CU120TE | 1200    | 150     | 1.9      | 36.00     | 0.12     | G2       |         |
| YZPST 200CU120TE | 1200    | 200     | 1.9      | 39.00     | 0.11     | G2       |         |
| YZPST 300CU120TE | 1200    | 300     | 1.9      | 64.80     | 0.08     | G2       |         |
| YZPST 400CU120TE | 1200    | 400     | 1.9      | 85.00     | 0.51     | G2       |         |
| YZPST 50CU120TK  | 1200    | 50      | 2.2      | 9.90      | 0.29     | G1       |         |
| YZPST 75CU120TK  | 1200    | 75      | 2.2      | 12.90     | 0.23     | G1       |         |
| YZPST 100CU120TK | 1200    | 100     | 2.2      | 13.60     | 0.20     | G1       |         |
| YZPST 150CU120TK | 1200    | 150     | 2.2      | 25.00     | 0.13     | G2       |         |
| YZPST 200CU120TK | 1200    | 200     | 2.2      | 30.00     | 0.10     | G2       |         |
| YZPST 300CU120TK | 1200    | 300     | 2.2      | 48.00     | 0.07     | G2       |         |
| YZPST 400CU120TK | 1200    | 400     | 2.2      | 64.00     | 0.05     | G2       |         |
| YZPST 40CU120NU  | 1200    | 40      | 3.1      | 8.10      | 0.38     | M1       |         |
| YZPST 50CU120NU  | 1200    | 50      | 3.1      | 8.60      | 0.35     | G1       |         |
| YZPST 75CU120NU  | 1200    | 75      | 3.1      | 9.20      | 0.30     | G1       |         |
| YZPST 100CU120NU | 1200    | 100     | 3.1      | 12.70     | 0.25     | G1       |         |
| YZPST 150CU120NU | 1200    | 150     | 3.1      | 19.00     | 0.12     | G2       |         |
| YZPST 200CU120NU | 1200    | 200     | 3.1      | 30.00     | 0.09     | G2       |         |
| YZPST 300CU120NU | 1200    | 300     | 3.1      | 51.00     | 0.06     | G2       |         |
| YZPST 300HF120S  | 1200    | 300     | 1.9      | 64.00     | 0.05     | G8       |         |
| YZPST 450HF120S  | 1200    | 450     | 1.9      | 96.00     | 0.04     | G8       |         |
| YZPST 300HF120TE | 1200    | 300     | 1.9      | 48.00     | 0.06     | G8       |         |
| YZPST 450HF120TE | 1200    | 450     | 1.9      | 98.00     | 0.05     | G8       |         |
| YZPST 600HF120TE | 1200    | 600     | 1.9      | 142.00    | 0.03     | G8       |         |
| YZPST 300HF120TK | 1200    | 300     | 2.2      | 45.00     | 0.06     | G8       |         |
| YZPST 450HF120TK | 1200    | 450     | 2.2      | 92.00     | 0.05     | G8       |         |
| YZPST 600HF120TK | 1200    | 600     | 2.2      | 136.00    | 0.03     | G8       |         |

| Type             | VCES    | IC      | VCE(sat) | E(on+off) | Rth(J-C) | Packages | Circuit |
|------------------|---------|---------|----------|-----------|----------|----------|---------|
|                  | Tc=25°C | Tc=80°C | Tj=25°C  | Tj=125°C  |          |          |         |
|                  | (V)     | (A)     | (V)      | (mJ)      | (K/W)    |          |         |
| YZPST 25FF120TK  | 1200    | 25      | 2.2      | 5.46      | 0.72     | E1-FF    |         |
| YZPST 35FF120TK  | 1200    | 35      | 2.2      | 7.90      | 0.45     | E1-FF    |         |
| YZPST 50FF120TK  | 1200    | 50      | 2.2      | 11.60     | 0.36     | E2-FF    |         |
| YZPST 75FF120TK  | 1200    | 75      | 2.2      | 18.40     | 0.28     | E2-FF    |         |
| YZPST 15PI60TK   | 1200    | 15      | 2.2      | 2.95      | 0.85     | E1-PI    |         |
| YZPST 25PI60TK   | 1200    | 25      | 2.2      | 5.46      | 0.72     | E2-PI    |         |
| YZPST 30PI60TK   | 1200    | 30      | 2.2      | 7.90      | 0.45     | E2-PI    |         |
| YZPST 75FF120TE  | 1200    | 75      | 1.9      | 12.80     | 0.29     | G5-FF    |         |
| YZPST 100FF120TE | 1200    | 100     | 1.9      | 13.60     | 0.23     | G5-FF    |         |
| YZPST 150FF120TE | 1200    | 150     | 1.9      | 24.60     | 0.18     | G5-FF    |         |
| YZPST 25FF120TK  | 1200    | 25      | 2.2      | 5.46      | 0.60     | G4-FF    |         |
| YZPST 35FF120TK  | 1200    | 35      | 2.2      | 7.80      | 0.45     | G4-FF    |         |
| YZPST 50FF120TK  | 1200    | 50      | 2.2      | 11.50     | 0.35     | G4-FF    |         |
| YZPST 75FF120TK  | 1200    | 75      | 2.2      | 18.40     | 0.25     | G5-FF    |         |
| YZPST 100FF120TK | 1200    | 100     | 2.2      | 19.60     | 0.18     | G5-FF    |         |
| YZPST 50PI120TE  | 1200    | 50      | 1.9      | 10.00     | 0.42     | G5-PI    |         |
| YZPST 75PI120TE  | 1200    | 75      | 1.9      | 13.00     | 0.29     | G5-PI    |         |
| YZPST 100PI120TE | 1200    | 100     | 1.9      | 13.60     | 0.22     | G5-PI    |         |
| YZPST 15PI120TK  | 1200    | 15      | 2.2      | 3.00      | 0.80     | G4-PI    |         |
| YZPST 25PI120TK  | 1200    | 25      | 2.2      | 5.50      | 0.60     | G4-PI    |         |
| YZPST 40PI120TK  | 1200    | 40      | 2.2      | 8.40      | 0.42     | G4-PI    |         |
| YZPST 50PI120TK  | 1200    | 50      | 2.2      | 11.50     | 0.35     | G5-PI    |         |
| YZPST 75PI120TK  | 1200    | 75      | 2.2      | 18.50     | 0.25     | G5-PI    |         |
| YZPST 150CH120S  | 1200    | 150     | 1.9      | 28.5      | 0.11     | G7       |         |
| YZPST 200CH120S  | 1200    | 200     | 1.9      | 32        | 0.08     | G7       |         |
| YZPST 150CH120TE | 1200    | 150     | 1.9      | 29        | 0.12     | G7       |         |
| YZPST 200CH120TE | 1200    | 200     | 1.9      | 32.8      | 0.09     | G7       |         |
| YZPST 300CH120TE | 1200    | 300     | 1.9      | 66        | 0.07     | G7       |         |
| YZPST 300CH120TE | 1200    | 300     | 1.9      | 66        | 0.06     | G8       |         |
| YZPST 400CH120TE | 1200    | 400     | 1.9      | 98        | 0.05     | G8       |         |
| YZPST 450CH120TE | 1200    | 450     | 1.9      | 93        | 0.04     | A1       |         |
| YZPST 600CH120TE | 1200    | 600     | 1.9      | 138       | 0.03     | A1       |         |
| YZPST 150TL120TE | 1200    | 150     | 1.9      | 25.00     | 0.13     | G7       |         |
| YZPST 200TL120TE | 1200    | 200     | 1.9      | 30.00     | 0.10     | G7       |         |
| YZPST 300TL120TE | 1200    | 300     | 1.9      | 48.00     | 0.07     | G7       |         |
| YZPST 150TL120TK | 1200    | 150     | 2.2      | 33.00     | 0.12     | G7       |         |
| YZPST 200TL120TK | 1200    | 200     | 2.2      | 44.00     | 0.09     | G7       |         |
| YZPST 300TL120TK | 1200    | 300     | 2.2      | 64.00     | 0.07     | G7       |         |

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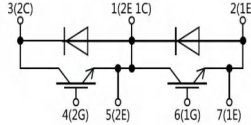
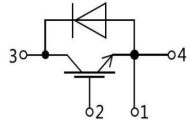
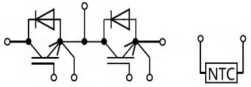
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## 1700V IGBT Products List

| Type            | V <sub>CES</sub>    | I <sub>C</sub>      | V <sub>CE(sat)</sub> | E <sub>(on+off)</sub> | R <sub>th(J-C)</sub> | Packages | Circuit                                                                             |
|-----------------|---------------------|---------------------|----------------------|-----------------------|----------------------|----------|-------------------------------------------------------------------------------------|
|                 | T <sub>c</sub> =25℃ | T <sub>c</sub> =80℃ | T <sub>j</sub> =25℃  | T <sub>j</sub> =125℃  |                      |          |                                                                                     |
|                 | (V)                 | (A)                 | (V)                  | (mJ)                  |                      |          |                                                                                     |
| YZPST 50HF170S  | 1700                | 50                  | 2.3                  | 40.5                  | 0.23                 | G1       |  |
| YZPST 75HF170S  | 1700                | 75                  | 2.3                  | 59                    | 0.18                 | G1       |                                                                                     |
| YZPST 100HF170S | 1700                | 100                 | 2.3                  | 80                    | 0.13                 | G1       |                                                                                     |
| YZPST 150HF170S | 1700                | 50                  | 2.3                  | 116                   | 0.08                 | G2       |                                                                                     |
| YZPST 200HF170S | 1700                | 75                  | 2.3                  | 155                   | 0.05                 | G2       |                                                                                     |
| YZPST 300HF170S | 1700                | 100                 | 2.3                  | 220                   | 0.045                | G2       |                                                                                     |
| YZPST 200SG170S | 1700                | 200                 | 2.3                  | 155                   | 0.08                 | G3       |  |
| YZPST 300SG170S | 1700                | 300                 | 2.3                  | 225                   | 0.06                 | G3       |                                                                                     |
| YZPST 400SG170S | 1700                | 400                 | 2.3                  | 205                   | 0.06                 | G3       |                                                                                     |
| YZPST 600SG170S | 1700                | 600                 | 2.3                  | 245                   | 0.04                 | G3       |                                                                                     |
| YZPST 150HF170S | 1700                | 150                 | 2.3                  | 110                   | 0.085                | G8       |  |
| YZPST 225HF171S | 1700                | 225                 | 2.3                  | 161                   | 0.075                | G8       |                                                                                     |
| YZPST 300HF172S | 1700                | 300                 | 2.3                  | 221                   | 0.045                | G8       |                                                                                     |
| YZPST 450HF173S | 1700                | 450                 | 2.3                  | 310                   | 0.042                | G8       |                                                                                     |

# Power Transistors

## SiC Products



YANGZHOU POSITIONING TECH. CO., LTD

### SiC MOSFET

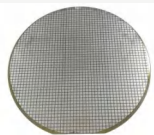
High speed switch, low on resistance

650V~6500V/25mΩ~1000mΩ

### SiC SBD

Low switching loss

650V~6500V/2A~50A



SiC Wafer



TO-252



TO-263-2



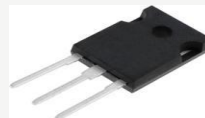
TO-220C-2L



TO-220FM



TO-247-2L



TO-247-3L



TO-247-4L

# Power Transistors

## SiC Series



YANGZHOU POSITIONING TECH. CO., LTD

### 650V SiC SBD

| P/N         | VDC  | IF(TC=155℃) | VF(TJ=25℃) Typical | VF(TJ=25℃) Max | IR(TJ=25℃) Typical | IFSM | Package    |
|-------------|------|-------------|--------------------|----------------|--------------------|------|------------|
| CEB06D065DA | 650V | 6A          | 1.5V               | 1.7V           | 8uA                | 63A  | DFN5*6     |
| CEB06D065O2 | 650V | 6A          | 1.5V               | 1.7V           | 8uA                | 63A  | TO-252-2   |
| CEB10D065S2 | 650V | 10A         | 1.27V              | 1.5V           | 2uA                | 86A  | TO-220C-2L |
| CEB10D065V2 | 650V | 10A         | 1.27V              | 1.4V           | 2uA                | 86A  | TO-263-2   |
| CEB15D065O2 | 650V | 15A         | 1.5V               | 1.8V           | 18uA               | 160A | TO-263-2   |
| CEB15D065R3 | 650V | 15A         | 1.5V               | 1.8V           | 18uA               | 160A | TO-247-3   |
| CEB20D065R3 | 650V | 20A         | 1.27V              | 1.5V           | 2uA                | 172A | TO-247-3   |
| CEB20D065O2 | 650V | 20A         | 1.27V              | 1.5V           | 2uA                | 172A | TO-263-2   |

### 1200V SiC SBD

| P/N         | VDC   | IF(TC=155℃) | VF(TJ=25℃) Typical | VF(TJ=25℃) Max | IR(TJ=25℃) Typical | IFSM | Package  |
|-------------|-------|-------------|--------------------|----------------|--------------------|------|----------|
| CEB10D120O2 | 1200V | 10A         | 1.5V               | 1.8V           | 30uA               | 71A  | TO-252-2 |
| CEB20D120R3 | 1200V | 20A         | 1.5V               | 1.8V           | 35uA               | 130A | TO-247-3 |
| CEB30D120R3 | 1200V | 30A         | 1.5V               | 1.8V           | 40uA               | 233A | TO-247-3 |

### 1200V SiC MOSFET

| P/N          | VDC   | IDS Typical | IGS Max | RDS(on) Typical | VGS(th) Typical | QG    | Package  |
|--------------|-------|-------------|---------|-----------------|-----------------|-------|----------|
| CEB025M120R3 | 1200V | 2uA         | 600nA   | 25mΩ            | 2.5V            | 185nC | TO-247-3 |
| CEB040M120R3 | 1200V | 1uA         | 250nA   | 40mΩ            | 2.4V            | 205nC | TO-247-3 |
| CEB080M120R3 | 1200V | 1uA         | 250nA   | 80mΩ            | 2.5V            | 102nC | TO-247-3 |
| CEB180M120R3 | 1200V | 1uA         | 250nA   | 180mΩ           | 2.8V            | 38nC  | TO-247-3 |

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# Power Transistors



YANGZHOU POSITIONING TECH. CO., LTD

## GaN & Si Series

### 650V GaN HEMT

| P/N          | VDC  | IDS Typical | IGS Max | RDS(on) Typical | VGS(th) Typical | QG    | Package |
|--------------|------|-------------|---------|-----------------|-----------------|-------|---------|
| CEC150G065DA | 650V | 11uA        | 500nA   | 150mΩ           | 1.0V            | 2.0nC | DFN 5*6 |
| CEB20D120R3  | 650V | 11uA        | 500nA   | 150mΩ           | 1.0V            | 2.0nC | DFN 8*8 |

### 650V GaN Sealing

| P/N          | VDC  | IDS Typical | IGS Max | RDS(on) Typical | VGS(th) Typical | QG   | Package |
|--------------|------|-------------|---------|-----------------|-----------------|------|---------|
| CEC150H065QB | 650V | 100nA       | 500nA   | 150mΩ           | -               | 10nC | DFN 8*8 |

### Synchronous Rectification

| P/N       | Circuit topology | Energy efficiency grade | standby power | Power tube   | max power | working frequency | Package | Application                   |
|-----------|------------------|-------------------------|---------------|--------------|-----------|-------------------|---------|-------------------------------|
| CEA3430T6 | DCM/QR/CCM       | -                       | -             | External MOS | -         | 200KHz            | SOT23-6 | USB-PD Quick charging adapter |
| CEA3405W8 | DCM/QR/CCM       | -                       | -             | 10mΩ/100V    | -         | 200KHz            | SOP-8   | 5V/3A、9V/3A                   |
| CEA3143W8 | DCM/QR/CCM       | -                       | -             | 10mΩ/80V     | -         | 200KHz            | SOP-8   | 5V/3A、9V/2A                   |

### Main Control Chip

| P/N         | Circuit topology                         | Energy efficiency grade | standby power | Power tube   | max power | working frequency | Package | Application                                                        |
|-------------|------------------------------------------|-------------------------|---------------|--------------|-----------|-------------------|---------|--------------------------------------------------------------------|
| CEA6710W8   | Secondary side feedback + double winding | 6                       | < 70mW        | External MOS | 30W       | 65KHz             | SOP-8   | PD / QC fast charging / charger, adapter, set-top box power supply |
| CEA6717W8   |                                          | 6                       | < 70mW        | 7A/650V      | 20W       | 65KHz             | SOP-8   |                                                                    |
| CEA6601W8S  | Secondary side feedback + QR             | 6                       | < 65mW        | External GaN | 120W      | 130KHz            | SOP-8   | High power fast charger, adapter, TV / open power supply           |
| CEA6601W8   |                                          | 6                       | < 65mW        | External MOS | 75W       | 130KHz            | SOP-8   |                                                                    |
| CEA6801P10  |                                          | 6                       | < 65mW        | External MOS | 75W       | 130KHz            | SSOP-10 |                                                                    |
| CEA6801P10S |                                          | 6                       | < 65mW        | External GaN | 120W      | 130KHz            | SSOP-10 |                                                                    |

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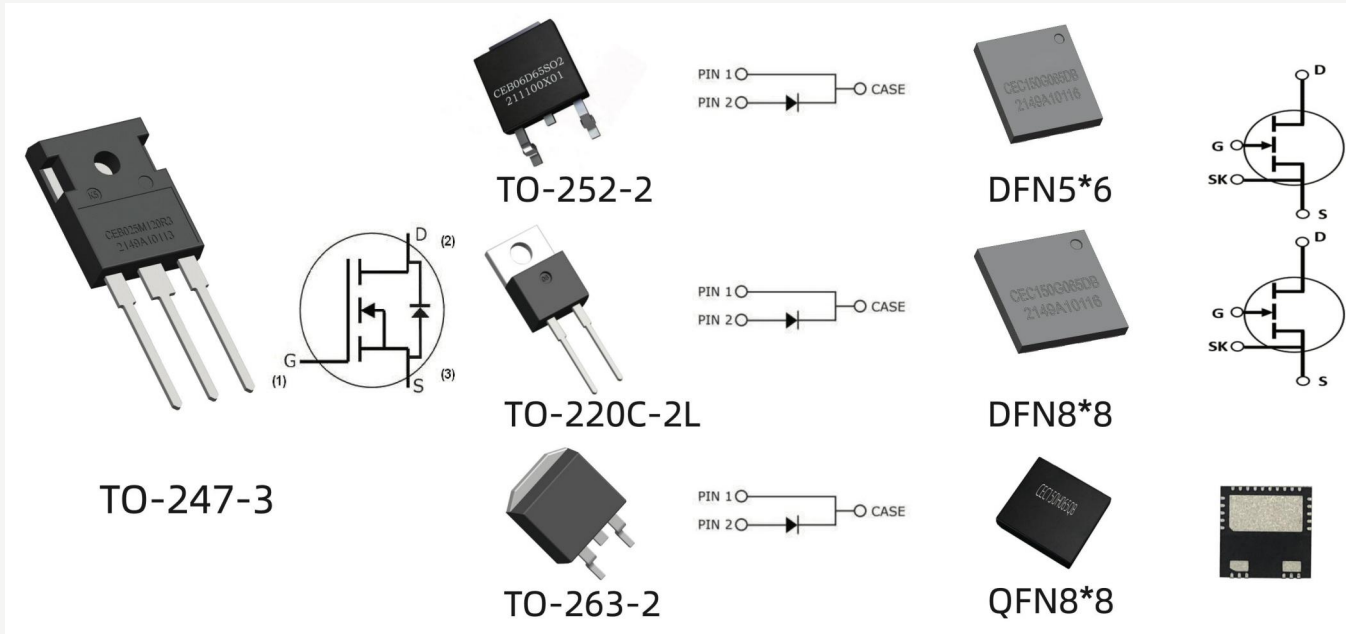
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# Power Transistors

## SiC & GaN Products Packages

YZPST

YANGZHOU POSITIONING TECH. CO., LTD



## Automotive Direction Indicator ASIC

| 型号 / PART NO | 封装 /PACKAGE | 包装 /PACKAGING    | 最低起订数量 /MOQ | 兼容型号 /Ref.                    |
|--------------|-------------|------------------|-------------|-------------------------------|
| LD1041       | SOP8        | 2500/Tape&Reel   | 2500        | UAA1041B, U243B, U643B, L9686 |
| LD1041       | DIP8        | 50/Tube,2000/Box | 2000        | UAA1041B, U243B, U643B, L9686 |
| LT4761       | SOP8        | 2500/Tape&Reel   | 2500        |                               |
| LT4761       | DIP8        | 50/Tube,2000/Box | 2000        |                               |
| U2043B       | SOP8        | 2500/Tape&Reel   | 2500        |                               |
| U2043C       | SOP8        | 2500/Tape&Reel   | 2500        |                               |
| LD33193      | SOP8        | 2500/Tape&Reel   | 2500        | MC33193DR2G                   |
| LD33193      | DIP8        | 50/Tube,2000/Box | 2000        | MC33193PG                     |
| LD2044       | SOP14       | 4000/Tape&Reel   | 4000        | U2044B                        |
| LD2044       | SOP14       | 50/Tube,10K/Box  | 2000        | U2044B                        |
| L2044G       | SOP14       | 4000/Tape&Reel   | 4000        | U2044B                        |
| L2044G       | SOP14       | 50/Tube,10K/Box  | 2000        | U2044B                        |

## Automotive power control ASIC

| 型号 / PART NO | 封装 /PACKAGE | 包装 /PACKAGING    | 最低起订数量 /MOQ | 兼容型号 /Ref. |
|--------------|-------------|------------------|-------------|------------|
| LD6046       | SOP8        | 2500/Tape&Reel   | 2500        | U6046B     |
| LD6046       | DIP8        | 50/Tube,2000/Box | 2000        | U6046B     |
| LD6083B      | SOP8        | 2500/Tape&Reel   | 2500        | U6083B     |
| LD6083B      | DIP8        | 50/Tube,2000/Box | 2000        | U6083B-MY  |
| LD9305       | SOP8        | 2500/Tape&Reel   | 2500        | L9305A     |
| LD9305       | DIP8        | 50/Tube,2000/Box | 2000        | L9305A     |

## Automotive Interval and Wipe/ Wash Wiper Control ASIC

| 型号 / PART NO | 封装 /PACKAGE | 包装 /PACKAGING    | 最低起订数量 /MOQ | 兼容型号 /Ref.   |
|--------------|-------------|------------------|-------------|--------------|
| U641B        | SOP8        | 2500/Tape&Reel   | 2500        | U641B-MFPG3Y |
| U641B        | DIP8        | 50/Tube,2000/Box | 2000        | U641B-MY     |
| U642B        | SOP8        | 2500/Tape&Reel   | 2500        | U642B-MFPG3Y |
| U642B        | DIP8        | 50/Tube,2000/Box | 2000        | U642B-MY     |
| LD33197      | SOP8        | 2500/Tape&Reel   | 2500        | MC33197DR2   |
| LD33197      | DIP8        | 50/Tube,2000/Box | 2000        | MC33197AP    |

## Automotive high-energy electronic ignition ASIC

| 型号 / PART NO | 封装 /PACKAGE | 包装 /PACKAGING    | 最低起订数量 /MOQ | 兼容型号 /Ref.        |
|--------------|-------------|------------------|-------------|-------------------|
| LD3334       | SOP8        | 2500/Tape&Reel   | 2500        | MC3334P           |
| LD3334       | DIP8        | 50/Tube,2000/Box | 2000        | MC3334D           |
| LD497        | SOP16       | 50/Tube,10K/Box  | 1000        | L497              |
| LD3335       | SOP16(W)    | 1500/Tape&Reel   | 1500        | MC79076, MCZ79076 |

## Automotive communication interface ASIC

| 型号 / PART NO | 封装 /PACKAGE | 包装 /PACKAGING  | 最低起订数量 /MOQ | 兼容型号 /Ref. |
|--------------|-------------|----------------|-------------|------------|
| LD33290      | SOP8        | 2500/Tape&Reel | 2500        | MC33290P   |
| LDA82C251    | SOP8        | 2500/Tape&Reel | 2500        | PCA82C251  |

## Automotive regulated power supply ASIC

| 型号 / PART NO | 封装 /PACKAGE | 包装 /PACKAGING    | 最低起订数量 /MOQ | 兼容型号 /Ref. |
|--------------|-------------|------------------|-------------|------------|
| LD4275       | TO-263-5L   | 50/Tube,2000/Box | 1000        | TLE4275    |
| LD42794      | SOP8        | 2500/Tape&Reel   | 2500        | TLE42794   |
| LD4263       | SOP8        | 2500/Tape&Reel   | 2500        | TLE4263    |
| LD4263       | SOP14       | 4000/Tape&Reel   | 2000        | TLE4263    |

## Motor Control ASIC

| 型号 / PART NO | 封装 /PACKAGE | 包装 /PACKAGING    | 最低起订数量 /MOQ | 兼容型号 /Ref. |
|--------------|-------------|------------------|-------------|------------|
| LD1185       | DIP14       | 25/Tube,1K/Box   |             | TDA1185A   |
| LD1185       | SOP14       | 4000/Tape&Reel   | 2000        | TDA1185A   |
| LD33153      | SOP8        | 2500/Tape&Reel   | 2500        | MC33153    |
| LD33153      | DIP8        | 50/Tube,2000/Box | 2000        | MC33153    |
| LD33035      | SOP24L      | 30/Tube,1800/Box |             | MC33035    |

## Metal Proximity Detector IC

| 型号 / PART NO | 封装 /PACKAGE | 包装 /PACKAGING    | 最低起订数量 /MOQ | 兼容型号 /Ref. |
|--------------|-------------|------------------|-------------|------------|
| LD209A       | DIP8        | 50/Tube,2000/Box |             | CS209A     |
| LD209A       | SOP14       | 50/Tube,10K/Box  |             | CS209A     |
| LDA355       | SOP8        | 2500/Tape&Reel   | 2500        | TCA355G    |
| LDA505       | SOP16       | 50/Tube,10K/Box  | 1000        | TCA505BG   |
| LDA515       | DFN14L      |                  |             | TCA515     |
| LDA0161      | SOP8        | 2500/Tape&Reel   | 2500        | TDA0161    |

## Ignition Controller of Motorcycle IC

| 型号 / PART NO | 封装 /PACKAGE | 包装 /PACKAGING   | 最低起订数量 /MOQ | 兼容型号 /Ref. |
|--------------|-------------|-----------------|-------------|------------|
| LD4213       | DIP14       | 25/Tube,1K/Box  |             | MB4213     |
| LD4213       | SOP14       | 50/Tube,10K/Box |             | MB4213     |

## Class DB Chip Specification(STD/FR/HER/SF)

### Chip highlights:

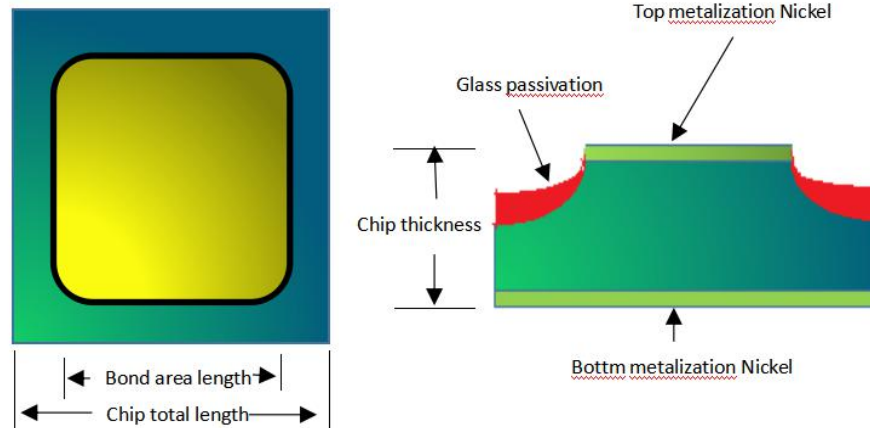
Spin coating process GPP chip

Full trench passivation protection

Metallization: double-sided electroless nickel plating

### Chip structure diagram

Class DB Process



## Chip size and electrical parameters

| P/N        | Size   |                |                 |                    |                     | Specs        |              |              |           |      |      |
|------------|--------|----------------|-----------------|--------------------|---------------------|--------------|--------------|--------------|-----------|------|------|
|            |        |                |                 |                    |                     | VR<br>@5.0UA | TRR<br>@RG-1 | TRR<br>@RG-1 | VF@IF     | IFSM | IR   |
|            |        |                |                 |                    |                     | (V)          | (nS)         | (nS)         | (V)       | (A)  | (UA) |
|            | mil    | Chip Size(mil) | Table size(mil) | Chip Thickness(um) | Glass Thickness(um) | MIN          | MIN          | MAX          | MAX       | MIN  | MAX  |
| STDGPP45M  | 45mil  | 45±2           | 32±1            | 260±10             | ≥80                 | 1200         | 900          | NA           | 0.98@1A   | 35   | 0.3  |
| STDGPP45M  | 45mil  | 45±2           | 32±1            | 260±10             | ≥70                 | 1500         | 900          | NA           | 0.98@1A   | 30   | 0.3  |
| STDGPP50M  | 50mil  | 50±2           | 38±1            | 260±10             | ≥80                 | 1200         | 1000         | NA           | 0.98@1A   | 40   | 0.3  |
| STDGPP60M  | 60mil  | 60±2           | 47±1            | 260±10             | ≥80                 | 1200         | 1200         | NA           | 0.98@1.5A | 60   | 0.4  |
| STDGPP70M  | 70mil  | 70±2           | 55±1            | 260±10             | ≥80                 | 1200         | 1200         | NA           | 0.98@2A   | 70   | 0.5  |
| STDGPP73M  | 73mil  | 73±2           | 58±1            | 260±10             | ≥80                 | 1200         | 1200         | NA           | 0.98@2A   | 75   | 0.5  |
| STDGPP84M  | 84mil  | 84±2           | 68±1            | 260±10             | ≥80                 | 1200         | 1400         | NA           | 0.98@3A   | 100  | 0.6  |
| STDGPP95M  | 95mil  | 95±2           | 79±1            | 260±10             | ≥80                 | 1200         | 1400         | NA           | 0.98@5A   | 120  | 0.6  |
| STDGPP100M | 100mil | 100±2          | 84±1            | 260±10             | ≥80                 | 1200         | 1500         | NA           | 0.98@5A   | 160  | 0.8  |
| STDGPP110M | 110mil | 110±2          | 94±1            | 260±10             | ≥80                 | 1200         | 1500         | NA           | 0.98@7.5A | 180  | 0.8  |
| STDGPP120M | 120mil | 120±2          | 104±1           | 260±10             | ≥80                 | 1200         | 1500         | NA           | 0.98@10A  | 200  | 0.8  |
| STDGPP130M | 130mil | 130±2          | 114±1           | 260±10             | ≥80                 | 1200         | 1500         | NA           | 0.98@14A  | 200  | 0.8  |
| STDGPP140M | 140mil | 140±2          | 124±1           | 260±10             | ≥80                 | 1200         | 1500         | NA           | 0.98@18A  | 200  | 0.8  |
| STDGPP160M | 160mil | 160±2          | 144±1           | 260±10             | ≥80                 | 1200         | 1500         | NA           | 0.98@25A  | 200  | 0.8  |
| STDGPP180M | 180mil | 180±2          | 164±1           | 260±10             | ≥80                 | 1200         | 1500         | NA           | 0.98@30A  | 200  | 0.8  |
| STDGPP44T  | 44mil  | 44±2           | 32±1            | 320±10             | ≥120                | 2100         | 900          | NA           | 1.04@1A   | 35   | 0.6  |
| STDGPP50T  | 50mil  | 50±2           | 38±1            | 320±10             | ≥120                | 2100         | 1000         | NA           | 1.04@1A   | 40   | 0.6  |
| STDGPP60T  | 60mil  | 60±2           | 47±1            | 320±10             | ≥120                | 2100         | 1200         | NA           | 1.04@2A   | 60   | 1.0  |
| STDGPP180M | 180mil | 180±2          | 164±1           | 320±10             | ≥120                | 2000         | 1200         | NA           | 1.04@2A   | 200  | 1.0  |
| STDGPP215M | 215mil | 215±2          | 200±1           | 320±10             | ≥120                | 2000         | 1200         | NA           | 1.04@2A   | 220  | 1.0  |
| STDGPP220M | 220mil | 220±2          | 200±1           | 320±10             | ≥120                | 2000         | 1200         | NA           | 1.04@2A   | 220  | 1.0  |
| FR107G     | 45mil  | 45±2           | 33±1            | 250±10             | ≥80                 | 1150         | 100          | 350          | 1.28@1A   | 35   | 0.3  |
| FR207G     | 60mil  | 60±2           | 47±1            | 250±10             | ≥80                 | 1150         | 100          | 350          | 1.28@2A   | 60   | 0.4  |
| FR307G     | 84mil  | 84±2           | 68±1            | 250±10             | ≥80                 | 1150         | 100          | 350          | 1.28@3A   | 100  | 0.6  |
| FR507G     | 95mil  | 95±2           | 79±1            | 250±10             | ≥80                 | 1150         | 100          | 350          | 1.28@5A   | 120  | 0.6  |
| FR50T      | 50mil  | 50±2           | 38±1            | 320±10             | ≥120                | 2000         | 100          | 500          | 3@1A      | 40   | 0.6  |
| FR60T      | 60mil  | 60±2           | 47±1            | 320±10             | ≥120                | 2000         | 100          | 500          | 3@2A      | 60   | 1.0  |
| US1G       | 45mil  | 45±2           | 33±1            | 210±10             | ≥70                 | 430          | 30           | 50           | 1.28@1A   | 35   | 0.3  |
| US1G       | 50mil  | 50±2           | 38±1            | 210±10             | ≥70                 | 430          | 30           | 50           | 1.28@1A   | 40   | 0.3  |
| US2G       | 60mil  | 60±2           | 47±1            | 210±10             | ≥70                 | 430          | 30           | 50           | 1.28@2A   | 60   | 0.3  |
| US3G       | 84mil  | 84±2           | 68±1            | 210±10             | ≥70                 | 430          | 30           | 50           | 1.28@2A   | 100  | 0.6  |
| US1J       | 45mil  | 45±2           | 33±1            | 225±10             | ≥70                 | 630          | 30           | 50           | 1.64@1A   | 35   | 0.3  |
| US1J       | 50mil  | 50±2           | 38±1            | 225±10             | ≥70                 | 630          | 30           | 50           | 1.64@1A   | 40   | 0.3  |

## Chip size and electrical parameters

| P/N          | Size   |                |                 |                    |                     | Specs     |           |           |          |      |      |
|--------------|--------|----------------|-----------------|--------------------|---------------------|-----------|-----------|-----------|----------|------|------|
|              |        |                |                 |                    |                     | VR @5.0UA | TRR @RG-1 | TRR @RG-1 | VF@IF    | IFSM | IR   |
|              |        |                |                 |                    |                     | (V)       | (nS)      | (nS)      | (V)      | (A)  | (UA) |
|              | mil    | Chip Size(mil) | Table size(mil) | Chip Thickness(um) | Glass Thickness(um) | MIN       | MIN       | MAX       | MAX      | MIN  | MAX  |
| US2J         | 60mil  | 60±2           | 47±1            | 225±10             | ≥70                 | 630       | 30        | 50        | 1.64@2A  | 60   | 0.3  |
| US3J         | 84mil  | 84±2           | 68±1            | 225±10             | ≥70                 | 630       | 30        | 50        | 1.64@3A  | 100  | 0.6  |
| HER108G      | 45mil  | 45±2           | 33±1            | 230±10             | ≥80                 | 1120      | 35        | 75        | 1.68@1A  | 35   | 0.3  |
| HER108G      | 50mil  | 50±2           | 38±1            | 230±10             | ≥80                 | 1120      | 35        | 75        | 1.68@1A  | 40   | 0.3  |
| HER208G      | 60mil  | 60±2           | 47±1            | 230±10             | ≥80                 | 1120      | 35        | 75        | 1.68@2A  | 60   | 0.4  |
| HER308G      | 84mil  | 84±2           | 68±1            | 230±10             | ≥80                 | 1120      | 35        | 75        | 1.68@3A  | 100  | 0.6  |
| HER508G      | 95mil  | 95±2           | 79±1            | 230±10             | ≥80                 | 1120      | 35        | 75        | 1.68@5A  | 120  | 0.6  |
| ES1D(SF14)   | 44mil  | 44±2           | 32±1            | 200±10             | ≥70                 | 220       | 15        | 35        | 1.0@1A   | 35   | 0.3  |
| ES2D         | 60mil  | 60±2           | 47±1            | 200±10             | ≥70                 | 220       | 15        | 35        | 1.0@2A   | 60   | 0.4  |
| ES3D         | 84mil  | 84±2           | 68±1            | 200±10             | ≥70                 | 220       | 15        | 35        | 1.0@3A   | 100  | 0.6  |
| ES5D         | 95mil  | 95±2           | 79±1            | 200±10             | ≥70                 | 220       | 15        | 35        | 1.0@5A   | 120  | 0.6  |
| ES1G(SF16)   | 44mil  | 44±2           | 32±1            | 210±10             | ≥70                 | 430       | 15        | 35        | 1.28@1A  | 35   | 0.3  |
| ES2G         | 60mil  | 60±2           | 47±1            | 210±10             | ≥70                 | 430       | 15        | 35        | 1.28@2A  | 60   | 0.4  |
| ES3G         | 84mil  | 84±2           | 68±1            | 210±10             | ≥70                 | 430       | 15        | 35        | 1.28@3A  | 100  | 0.6  |
| ESSG(SF506G) | 95mil  | 95±2           | 79±1            | 210±10             | ≥70                 | 430       | 15        | 35        | 1.28@5A  | 120  | 0.6  |
| ES1J (SF18)  | 44mil  | 44±2           | 32±1            | 225±10             | ≥70                 | 650       | 15        | 35        | 1.68@1A  | 35   | 0.3  |
| ES1J         | 50mil  | 50mil          | 50±2            | 225±10             | ≥70                 | 650       | 15        | 35        | 1.68@1A  | 40   | 0.3  |
| ES2J         | 60mil  | 60±2           | 47±1            | 225±10             | ≥70                 | 650       | 15        | 35        | 1.68@2A  | 60   | 0.4  |
| ES3J         | 84mil  | 84±2           | 68±1            | 225±10             | ≥70                 | 650       | 15        | 35        | 1.68@3A  | 100  | 0.6  |
| ESSJ(SF508G) | 95mil  | 95±2           | 79±1            | 225±10             | ≥70                 | 650       | 15        | 35        | 1.68@5A  | 120  | 0.6  |
| ESSJ(SF508G) | 95mil  | 95±2           | 79±1            | 225±10             | ≥70                 | 650       | 15        | 35        | 1.68@5A  | 120  | 0.6  |
| ES1K         | 44mil  | 44±2           | 32±1            | 230±10             | ≥70                 | 830       | 15        | 35        | 1.68@1A  | 35   | 0.3  |
| ES2K         | 60mil  | 60±2           | 47±1            | 230±10             | ≥70                 | 830       | 15        | 35        | 1.68@2A  | 60   | 0.4  |
| ES3K         | 84mil  | 84±2           | 68±1            | 230±10             | ≥70                 | 830       | 15        | 35        | 1.68@3A  | 100  | 0.6  |
| ES5K         | 95mil  | 95±2           | 79±1            | 230±10             | ≥70                 | 830       | 15        | 35        | 1.68@5A  | 120  | 0.6  |
| SF108G       | 45mil  | 45±2           | 33±1            | 230±10             | ≥80                 | 1000      | 15        | 35        | 3@1A     | 35   | 0.3  |
| SF108G       | 50mil  | 50±2           | 38±1            | 230±10             | ≥80                 | 1000      | 15        | 35        | 3@1A     | 40   | 0.3  |
| SF208G       | 60mil  | 60±2           | 47±1            | 230±10             | ≥80                 | 1000      | 15        | 35        | 3@2A     | 60   | 0.4  |
| 1N4148       | 25mil  | 25±2           | 16±1            | 220±10             | ≥70                 | 120       | 0         | 4         | 1@0.15A  | 15   | 0.3  |
| STDGPP44L    | 44mil  | 44±2           | 32±1            | 250±10             | ≥80                 | 1200      | 900       | NA        | 0.95@1A  | 35   | 0.3  |
| STDGPP46L    | 46mil  | 46±2           | 34±1            | 250±10             | ≥80                 | 1200      | 1000      | NA        | 0.95@1A  | 35   | 0.3  |
| STDGPP180M   | 180mil | 180±2          | 164±1           | 320±10             | ≥120                | 1800      | 1200      | NA        | 1.04@16A | 200  | 1.0  |
| STDGPP220M   | 220mil | 220±2          | 200±1           | 320±10             | ≥120                | 1800      | 1200      | NA        | 1.04@30A | 300  | 1.0  |
| STDGPP300M   | 300mil | 300±2          | 280±1           | 320±10             | ≥120                | 1800      | 1200      | NA        | 1.04@70A | 500  | 1.0  |
| STDGPP350M   | 350mil | 350±2          | 330±1           | 320±10             | ≥120                | 1800      | 1200      | NA        | 1.04@90A | 700  | 1.0  |
| HERGPP140M   | 140mil | 140±2          | 122±2           | 230±10             | ≥60                 | 1000      | NA        | 65        | 2V@12A   | 300  | 1.0  |
| STDGPP220M   | 220mil | 220±2          | 200±1           | 260±10             | ≥60                 | 1150      | 1200      | NA        | 0.98@40A | 350  | 1.0  |
| STDGPP220M   | 220mil | 220±2          | 200±2           | 310±10             | ≥80                 | 1800      | 1200      | NA        | 1.04@40A | 350  | 1.0  |
| STDGPP250M   | 250mil | 250±2          | 230±1           | 260±10             | ≥60                 | 1150      | 1200      | NA        | 1.04@50A | 450  | 1.0  |
| STDGPP250M   | 250mil | 250±2          | 230±2           | 310±10             | ≥80                 | 1800      | 1200      | NA        | 1.04@50A | 450  | 1.0  |



# YZPST Products - Power Modules

# Power Modules

## Brief



YANGZHOU POSITIONING TECH. CO., LTD



High-power electronic power devices are re-potted into an integrated module according to a certain combination of functions.

A power semiconductor module is a combination of certain functions and modes, and a power semiconductor module is a high-power electronic power device that is re-potted into a whole according to a certain function combination. Power semiconductor modules can achieve different functions according to the different components in the package. Power semiconductor modules can be used as air-cooled modules with air-cooled heat dissipation, and water-cooled modules with water-cooled heat dissipation.

It is characterized by **simple installation, convenient use and maintenance, small size and light weight.**

Typical applications in AC/DC motor control, various rectifier power supplies, industrial heating control, dimming, non-contact switches, electric welding machines, motor soft start, reactive power compensation, frequency converters, UPS power supplies, battery charging and discharging, etc.

## Thyristor Thyristor Modules

| IT(AV)@85℃ | VRRM<br>VDRM | IDRM<br>IRRM(max) | VTM (max) | IGT@25℃(max) | VGT@25℃ (max) | IH@25℃ (max) | dv/dt (min) | VISO(min) | Tjm |
|------------|--------------|-------------------|-----------|--------------|---------------|--------------|-------------|-----------|-----|
| (A)        | (V)          | mA                | (V)       | (mA)         | (V)           | (mA)         | (V/μS)      | (V)       | (℃) |
| 130A       | 800- 1800    | 5                 | 1.5       | 25-80        | 0.8- 1.5      | 25-70        | 500         | 2500      | 125 |
| 160A       | 800- 1800    | 7                 | 1.5       | 25-80        | 0.8- 1.5      | 25-70        | 500         | 2500      | 125 |
| 200A       | 800- 1800    | 10                | 1.6       | 30-80        | 0.8-2.0       | 25-70        | 500         | 2500      | 125 |
| 250A       | 800- 1800    | 10                | 1.6       | 30-80        | 0.8-2.0       | 25-70        | 500         | 2500      | 125 |
| 300A       | 800- 1800    | 15                | 1.7       | 30-85        | 0.8-2.0       | 30-80        | 500         | 2500      | 125 |
| 400A       | 800- 1800    | 15                | 1.7       | 30-85        | 0.8-2.0       | 30- 100      | 500         | 2500      | 125 |
| 500A       | 800- 1800    | 15                | 1.7       | 30-85        | 0.8-2.0       | 30- 100      | 500         | 2500      | 125 |
| 600A       | 800- 1800    | 20                | 1.8       | 30-90        | 0.8-2.0       | 30- 100      | 500         | 2500      | 125 |
| 800A       | 800- 1800    | 25                | 1.8       | 35-90        | 0.8-2.0       | 35- 100      | 500         | 2500      | 125 |



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# Power Modules

## Thyristor Thyristor Modules



| Part Number | Package   | V <sub>RRM</sub> /V <sub>DRM</sub> | I <sub>O</sub> | I <sub>FSM</sub> | I <sub>GT</sub> |
|-------------|-----------|------------------------------------|----------------|------------------|-----------------|
|             |           | V                                  | A              | A                | mA (MAX)        |
| CKT26       | TO-240AA  | 400-1600                           | 26             | 420              | 150             |
| CKT55       | TO-240AA  | 400-1600                           | 55             | 1250             | 150             |
| CKT71       | TO-240AA  | 400-1600                           | 75             | 1450             | 150             |
| CKT91       | TO-240AA  | 400-1600                           | 95             | 2050             | 150             |
| GCQT100     | SEMISTOP2 | 800-1600                           | 100            | 2050             | 150             |
| GC2T100     | SEMISTOP2 | 800-1600                           | 100            | 2050             | 150             |
| CKT110      | TO-240AA  | 400-1600                           | 110            | 2050             | 150             |

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| Part No. | Repetitive Peak Off state Voltage  | Maximum Average Forward Rectified Current |   | Peak forward Surge Current 8.3ms Single Half Sine-Wave Superimposed On Rated Load | Maximum DC Instantaneous Reverse Current @ V <sub>RRM</sub> |    | Maximum DC Gate Trigger Current @ V <sub>D</sub> =6V | Maximum DC Gate Trigger Voltage @ V <sub>D</sub> =6V | Maximum Holding Current | Maximum Latching Current | Maximum Instantaneous Forward Voltage at Per leg @ 25°C |                |
|----------|------------------------------------|-------------------------------------------|---|-----------------------------------------------------------------------------------|-------------------------------------------------------------|----|------------------------------------------------------|------------------------------------------------------|-------------------------|--------------------------|---------------------------------------------------------|----------------|
|          | V <sub>RRM</sub> /V <sub>DRM</sub> | I <sub>O</sub> @ TC                       |   | I <sub>FSM</sub>                                                                  | I <sub>R</sub> @ T <sub>J</sub>                             |    | IGT                                                  | VGT                                                  | I <sub>H</sub>          | I <sub>L</sub>           | V <sub>TM</sub>                                         | I <sub>F</sub> |
|          | V <sub>PK</sub>                    | A                                         | C | A                                                                                 | μ A                                                         | mA | mA                                                   | V                                                    | mA                      | mA                       | V                                                       | A              |

**26AMP / THYRISTOR- THYRISTOR / TO-240AA(ADD-A-PAK)** T<sub>J</sub> of -40°C to +125°C T<sub>stg</sub> of -40°C to +125°C I<sub>FSM</sub> for 25°C

|           |      |    |    |     |    |    |     |     |     |     |     |    |
|-----------|------|----|----|-----|----|----|-----|-----|-----|-----|-----|----|
| CKT26-04A | 400  | 26 | 85 | 420 | 50 | 15 | 150 | 1.5 | 200 | 300 | 1.5 | 80 |
| CKT26-06A | 600  | 26 | 85 | 420 | 50 | 15 | 150 | 1.5 | 200 | 400 | 1.5 | 80 |
| CKT26-08A | 800  | 26 | 85 | 420 | 50 | 15 | 150 | 1.5 | 200 | 400 | 1.5 | 80 |
| CKT26-10A | 1000 | 26 | 85 | 420 | 50 | 15 | 150 | 1.5 | 200 | 400 | 1.5 | 80 |
| CKT26-12A | 1200 | 26 | 85 | 420 | 50 | 15 | 150 | 1.5 | 200 | 400 | 1.5 | 80 |
| CKT26-14A | 1400 | 26 | 85 | 420 | 50 | 15 | 150 | 1.5 | 200 | 400 | 1.5 | 80 |
| CKT26 16A | 1600 | 26 | 85 | 420 | 50 | 15 | 150 | 1.5 | 200 | 400 | 1.5 | 80 |

**55AMP / THYRISTOR- THYRISTOR / TO-240AA(ADD-A-PAK)** T<sub>J</sub> of -40°C to +125°C T<sub>stg</sub> of -40°C to +125°C I<sub>FSM</sub> for 25°C

|           |      |    |    |      |    |    |     |     |     |     |     |     |
|-----------|------|----|----|------|----|----|-----|-----|-----|-----|-----|-----|
| CKT55-04A | 400  | 55 | 85 | 1250 | 50 | 15 | 150 | 1.5 | 200 | 400 | 1.7 | 170 |
| CKT55-06A | 600  | 55 | 85 | 1250 | 50 | 15 | 150 | 1.5 | 200 | 400 | 1.7 | 170 |
| CKT55-08A | 800  | 55 | 85 | 1250 | 50 | 15 | 150 | 1.5 | 200 | 400 | 1.7 | 170 |
| CKT55-10A | 1000 | 55 | 85 | 1250 | 50 | 15 | 150 | 1.5 | 200 | 400 | 1.7 | 170 |
| CKT55-12A | 1200 | 55 | 85 | 1250 | 50 | 15 | 150 | 1.5 | 200 | 400 | 1.7 | 170 |
| CKT55-14A | 1400 | 55 | 85 | 1250 | 50 | 15 | 150 | 1.5 | 200 | 400 | 1.7 | 170 |
| CKT55 16A | 1600 | 55 | 85 | 1250 | 50 | 15 | 150 | 1.5 | 200 | 400 | 1.7 | 170 |

**75AMP / THYRISTOR- THYRISTOR / TO-240AA(ADD-A-PAK)** T<sub>J</sub> of -40°C to +125°C T<sub>stg</sub> of -40°C to +125°C I<sub>FSM</sub> for 25°C

|           |      |    |    |      |    |    |     |     |     |     |     |     |
|-----------|------|----|----|------|----|----|-----|-----|-----|-----|-----|-----|
| CKT71-04A | 400  | 75 | 85 | 1450 | 50 | 15 | 150 | 1.5 | 200 | 400 | 1.7 | 230 |
| CKT71-06A | 600  | 75 | 85 | 1450 | 50 | 15 | 150 | 1.5 | 200 | 400 | 1.7 | 230 |
| CKT71-08A | 800  | 75 | 85 | 1450 | 50 | 15 | 150 | 1.5 | 200 | 400 | 1.7 | 230 |
| CKT71-10A | 1000 | 75 | 85 | 1450 | 50 | 15 | 150 | 1.5 | 200 | 400 | 1.7 | 230 |
| CKT71-12A | 1200 | 75 | 85 | 1450 | 50 | 15 | 150 | 1.5 | 200 | 400 | 1.7 | 230 |
| CKT71-14A | 1400 | 75 | 85 | 1450 | 50 | 15 | 150 | 1.5 | 200 | 400 | 1.7 | 230 |
| CKT71 16A | 1600 | 75 | 85 | 1450 | 50 | 15 | 150 | 1.5 | 200 | 400 | 1.7 | 230 |

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## Thyristor Thyristor Modules

| Part No. | Repetitive Peak Off state Voltage | Maximum Average Forward Rectified Current |   | Peak forward Surge Current 8.3ms Single Half Sine-Wave Superimposed On Rated Load | Maximum DC Instantaneous Reverse Current @ VRRM |            | Maximum DC Gate Trigger Current @ VD=6V | Maximum DC Gate Trigger Voltage @ VD=6V | Maximum Holding Current | Maximum Latching Current | Maximum Instantaneous Forward Voltage at Per leg @ 25 C |    |
|----------|-----------------------------------|-------------------------------------------|---|-----------------------------------------------------------------------------------|-------------------------------------------------|------------|-----------------------------------------|-----------------------------------------|-------------------------|--------------------------|---------------------------------------------------------|----|
|          | VRRM/VDRM                         | Io@ TC                                    |   | IFSM                                                                              | IR@ TJ                                          |            | IGT                                     | VGT                                     | IH                      | IL                       | V <sub>TM</sub>                                         | IF |
|          | V <sub>PK</sub>                   | A                                         | C | A                                                                                 | μ A @ 25 C                                      | mA @ 125 C | mA                                      | V                                       | mA                      | mA                       | V                                                       | A  |

### 90AMP / THYRISTOR - THYRISTOR / TO-240AA(ADD-A-PAK) Tj of -40 C to +125 C Tstg of -40 C to +125 C IFSM for 25 C

|           |      |    |    |      |    |    |     |     |     |     |     |     |
|-----------|------|----|----|------|----|----|-----|-----|-----|-----|-----|-----|
| CKT90-04A | 400  | 90 | 85 | 2050 | 50 | 15 | 150 | 1.5 | 200 | 400 | 1.7 | 280 |
| CKT90-06A | 600  | 90 | 85 | 2050 | 50 | 15 | 150 | 1.5 | 200 | 400 | 1.7 | 280 |
| CKT90-08A | 800  | 90 | 85 | 2050 | 50 | 15 | 150 | 1.5 | 200 | 400 | 1.7 | 280 |
| CKT90-10A | 1000 | 90 | 85 | 2050 | 50 | 15 | 150 | 1.5 | 200 | 400 | 1.7 | 280 |
| CKT90-12A | 1200 | 90 | 85 | 2050 | 50 | 15 | 150 | 1.5 | 200 | 400 | 1.7 | 280 |
| CKT90-14A | 1400 | 90 | 85 | 2050 | 50 | 15 | 150 | 1.5 | 200 | 400 | 1.7 | 280 |
| CKT90-16A | 1600 | 90 | 85 | 2050 | 50 | 15 | 150 | 1.5 | 200 | 400 | 1.7 | 280 |

### 110AMP / THYRISTOR - THYRISTOR / TO-240AA(ADD-A-PAK) Tj of -40 C to +125 C Tstg of -40 C to +125 C IFSM for 25 C

|            |      |     |    |      |    |    |     |     |     |     |     |     |
|------------|------|-----|----|------|----|----|-----|-----|-----|-----|-----|-----|
| CKT110-04A | 400  | 110 | 85 | 2050 | 50 | 15 | 150 | 1.5 | 250 | 600 | 1.8 | 330 |
| CKT110-06A | 600  | 110 | 85 | 2050 | 50 | 15 | 150 | 1.5 | 250 | 600 | 1.8 | 330 |
| CKT110-08A | 800  | 110 | 85 | 2050 | 50 | 15 | 150 | 1.5 | 250 | 600 | 1.8 | 330 |
| CKT110-10A | 1000 | 110 | 85 | 2050 | 50 | 15 | 150 | 1.5 | 250 | 600 | 1.8 | 330 |
| CKT110-12A | 1200 | 110 | 85 | 2050 | 50 | 15 | 150 | 1.5 | 250 | 600 | 1.8 | 330 |
| CKT110-14A | 1400 | 110 | 85 | 2050 | 50 | 15 | 150 | 1.5 | 250 | 600 | 1.8 | 330 |
| CKT110 16A | 1600 | 110 | 85 | 2050 | 50 | 15 | 150 | 1.5 | 250 | 600 | 1.8 | 330 |

### 100AMP / THYRISTOR - THYRISTOR Tj of -40 C to +125 C Tstg of -40 C to +125 C IFSM for 25 C

|             |      |     |    |      |    |    |     |     |     |     |      |     |
|-------------|------|-----|----|------|----|----|-----|-----|-----|-----|------|-----|
| GCQT100-08A | 800  | 100 | 85 | 1500 | 50 | 15 | 150 | 1.5 | 200 | 400 | 1.85 | 300 |
| GCQT100-10A | 1200 | 100 | 85 | 1500 | 50 | 15 | 150 | 1.5 | 200 | 400 | 1.85 | 300 |
| GCQT100-12A | 1600 | 100 | 85 | 1500 | 50 | 15 | 150 | 1.5 | 200 | 400 | 1.85 | 300 |

### 100AMP / THYRISTOR - THYRISTOR Tj of -40 C to +125 C Tstg of -40 C to +125 C, IFSM for 25 C

|             |      |     |    |      |    |    |     |     |     |     |      |     |
|-------------|------|-----|----|------|----|----|-----|-----|-----|-----|------|-----|
| GCAT100-08A | 800  | 100 | 85 | 2000 | 50 | 15 | 150 | 1.5 | 200 | 500 | 1.85 | 300 |
| GCAT100-10A | 1200 | 100 | 85 | 2000 | 50 | 15 | 150 | 1.5 | 200 | 500 | 1.85 | 300 |
| GCAT100-12A | 1600 | 100 | 85 | 2000 | 50 | 15 | 150 | 1.5 | 200 | 500 | 1.85 | 300 |



## Diode diode Module

| IF(AV)@ | VRRM     | IRRM<br>(max) | VFM<br>(max) | VISO(min) | Tjm  |
|---------|----------|---------------|--------------|-----------|------|
| (A)     | (V)      | mA            | (V)          | (V)       | (°C) |
| 130A    | 800-1800 | 4             | 1.3          | 2500      | 150  |
| 160A    | 800-1800 | 4             | 1.3          | 2500      | 150  |
| 200A    | 800-1800 | 5             | 1.5          | 2500      | 150  |
| 250A    | 800-1800 | 5             | 1.5          | 2500      | 150  |
| 300A    | 800-1800 | 5             | 1.5          | 2500      | 150  |
| 400A    | 800-1800 | 7             | 1.5          | 2500      | 150  |
| 500A    | 800-1800 | 7             | 1.5          | 2500      | 150  |
| 600A    | 800-1800 | 10            | 1.5          | 2500      | 150  |
| 800A    | 800-1800 | 15            | 1.5          | 2500      | 150  |



<https://www.yzpst.com/diode-module/55099770.html>



<https://www.yzpst.com/diode-module/57662628.html>

# Power Modules

## Diode diode Module

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| Part Number | Package  | RRM      | IO  | IFSM |
|-------------|----------|----------|-----|------|
|             |          | V        | A   | A    |
| CKD5 5      | TO-240AA | 400-1600 | 55  | 1500 |
| CKD110      | TO-240AA | 400-1600 | 110 | 2250 |



<https://www.yzpst.com/diode-module/57780463.html>

| Part No. | Maximum Recurrent Peak Reverse Voltage | Maximum Average Forward Rectified Current |   | Peak forward Surge Current 8.3 ms Single Half Sine- Wave Superimposed On Rated Load | Maximum DC Instantaneous Reverse Current @ $V_{RRM}$ |         | Maximum Instantaneous Forward Voltage at Per leg @ 25 C |       |
|----------|----------------------------------------|-------------------------------------------|---|-------------------------------------------------------------------------------------|------------------------------------------------------|---------|---------------------------------------------------------|-------|
|          | $V_{RRM}$                              | $I_o @ T_c$                               |   | $I_{FSM}$                                                                           | $I_R @ T_j$                                          |         | F                                                       | $I_F$ |
|          |                                        |                                           |   |                                                                                     | @ 25 C                                               | @ 150 C |                                                         |       |
|          |                                        | A                                         | C | A                                                                                   | $\mu A$                                              | mA      | V                                                       | A     |

**55AMP / DIODE-DIODE / TO-240AA(ADD-A-PAK)**  $T_j$  of -40C to +150C  $T_{stg}$  of -40C to +150C  $I_{FSM}$  for 25C

|            |      |    |     |      |    |    |     |    |
|------------|------|----|-----|------|----|----|-----|----|
| CKD55-04A  | 400  | 55 | 110 | 1500 | 10 | 10 | 1.5 | 85 |
| CKD55-06A  | 600  | 55 | 110 | 1500 | 10 | 10 | 1.5 | 85 |
| CKD55-08A  | 800  | 55 | 110 | 1500 | 10 | 10 | 1.5 | 85 |
| CKD55- 10A | 1000 | 55 | 110 | 1500 | 10 | 10 | 1.5 | 85 |
| CKD55- 12A | 1200 | 55 | 110 | 1500 | 10 | 10 | 1.5 | 85 |
| CKD55- 14A | 1400 | 55 | 110 | 1500 | 10 | 10 | 1.5 | 85 |
| CKD55- 16A | 1600 | 55 | 110 | 1500 | 10 | 10 | 1.5 | 85 |

**110AMP / DIODE-DIODE/ TO-240AA(ADD-A-PAK)**  $T_j$  of -40C to +150C  $T_{stg}$  of -40C to +150C  $I_{FSM}$  for 25C

|             |      |     |     |      |    |    |     |     |
|-------------|------|-----|-----|------|----|----|-----|-----|
| CKD110-04A  | 400  | 110 | 110 | 2250 | 10 | 10 | 1.3 | 100 |
| CKD110-06A  | 600  | 110 | 110 | 2250 | 10 | 10 | 1.3 | 100 |
| CKD110-08A  | 800  | 110 | 110 | 2250 | 10 | 10 | 1.3 | 100 |
| CKD110- 10A | 1000 | 110 | 110 | 2250 | 10 | 10 | 1.3 | 100 |
| CKD110- 12A | 1200 | 110 | 110 | 2250 | 10 | 10 | 1.3 | 100 |
| CKD110- 14A | 1400 | 110 | 110 | 2250 | 10 | 10 | 1.3 | 100 |
| CKD110- 16A | 1600 | 110 | 110 | 2250 | 10 | 10 | 1.3 | 100 |

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# Power Modules

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## Thyristor diode module

| IT(AV)<br>@85C | VRRM<br>VDRM | IDRM<br>IRRM<br>(max) | VTM/VFM(<br>max) | IGT@(max) | VGT@(max) | IH@(max) | dv/ dt<br>(min) | VISO<br>(min) | Tjm   |
|----------------|--------------|-----------------------|------------------|-----------|-----------|----------|-----------------|---------------|-------|
| (A)            | (V)          | mA                    | (V)              | (mA)      | (V)       | (mA)     | (V/μS)          | (V)           | ( C ) |
| 130A           | 800-1800     | 5                     | 1.5/1.3          | 25-80     | 0.8- 1.5  | 25-70    | 500             | 2500          | 125   |
| 160A           | 800-1800     | 7                     | 1.5/1.3          | 25-80     | 0.8- 1.5  | 25-70    | 500             | 2500          | 125   |
| 200A           | 800-1800     | 10                    | 1.6/1.5          | 30-80     | 0.8-2.0   | 25-70    | 500             | 2500          | 125   |
| 250A           | 800-1800     | 10                    | 1.6/1.5          | 30-80     | 0.8-2.0   | 25-70    | 500             | 2500          | 125   |
| 300A           | 800-1800     | 15                    | 1.7/1.5          | 30-85     | 0.8-2.0   | 30-80    | 500             | 2500          | 125   |
| 400A           | 800-1800     | 15                    | 1.7/1.5          | 30-85     | 0.8-2.0   | 30- 100  | 500             | 2500          | 125   |
| 500A           | 800-1800     | 15                    | 1.7/1.5          | 30-85     | 0.8-2.0   | 30- 100  | 500             | 2500          | 125   |
| 600A           | 800-1800     | 20                    | 1.8/1.5          | 30-90     | 0.8-2.0   | 30- 100  | 500             | 2500          | 125   |
| 800A           | 800-1800     | 25                    | 1.8/1.5          | 35-90     | 0.8-2.0   | 35- 100  | 500             | 2500          | 125   |



<https://www.yzpst.com/thyristor-module/56956917.html>

| Part Number | Package  | VRRM/ VDRM | Io  | IFSM | IGT      |
|-------------|----------|------------|-----|------|----------|
|             |          | V          | A   | A    | mA( MAX) |
| CKH2 6      | TO-240AA | 400-1600   | 26  | 350  | 150      |
| CKH5 5      | TO-240AA | 400-1600   | 55  | 1250 | 150      |
| CKH7 1      | TO-240AA | 400-1600   | 75  | 1450 | 150      |
| CKH9 1      | TO-240AA | 400-1600   | 95  | 2050 | 150      |
| CKH11 0     | TO-240AA | 400-1600   | 110 | 2050 | 150      |



<https://www.yzpst.com/thyristor-module/56391964.html>

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# Power Modules

## Thyristor diode module



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| Part No. | Repetitive Peak Off state Voltage | Maximum Average Forward Rectified Current |   | Peak forward Surge Current 8.3ms Single Half Sine-Wave Superimposed On Rated Load | Maximum DC Instantaneous Reverse Current @ VRRM |    | Maximum DC Gate Trigger Current @ VD=6V | Maximum DC Gate Trigger Voltage @ VD=6V | Maximum Holding Current | Maximum Latching Current | Maximum Instantaneous Forward Voltage at Per leg @ 25 C |    |
|----------|-----------------------------------|-------------------------------------------|---|-----------------------------------------------------------------------------------|-------------------------------------------------|----|-----------------------------------------|-----------------------------------------|-------------------------|--------------------------|---------------------------------------------------------|----|
|          | VRRM/VDRM                         | Io@ TC                                    |   | IFSM                                                                              | IR@ TJ                                          |    | IGT                                     | VGT                                     | IH                      | IL                       | V <sub>TM</sub>                                         | IF |
|          | V <sub>PK</sub>                   | A                                         | C | A                                                                                 | μ A                                             | mA | mA                                      | V                                       | mA                      | mA                       | V                                                       | A  |

**55AMP / DIODE- THYRISTOR / TO-240AA(ADD-A-PAK)** Tj of -40C to +125 C, Zstg of -40C to +125C, IFSM for 25C

|           |      |    |    |      |    |    |     |     |     |     |     |     |
|-----------|------|----|----|------|----|----|-----|-----|-----|-----|-----|-----|
| CKH55-04A | 400  | 55 | 85 | 1250 | 50 | 15 | 150 | 1.5 | 200 | 400 | 1.7 | 170 |
| CKH55-06A | 600  | 55 | 85 | 1250 | 50 | 15 | 150 | 1.5 | 200 | 400 | 1.7 | 170 |
| CKH55-08A | 800  | 55 | 85 | 1250 | 50 | 15 | 150 | 1.5 | 200 | 400 | 1.7 | 170 |
| CKH55-10A | 1000 | 55 | 85 | 1250 | 50 | 15 | 150 | 1.5 | 200 | 400 | 1.7 | 170 |
| CKH55-12A | 1200 | 55 | 85 | 1250 | 50 | 15 | 150 | 1.5 | 200 | 400 | 1.7 | 170 |
| CKH55-14A | 1400 | 55 | 85 | 1250 | 50 | 15 | 150 | 1.5 | 200 | 400 | 1.7 | 170 |
| CKH55-16A | 1600 | 55 | 85 | 1250 | 50 | 15 | 150 | 1.5 | 200 | 400 | 1.7 | 170 |

**75AMP / DIODE- THYRISTOR / TO-240AA(ADD-A-PAK)** Tj of -40C to +125 C, Tstg of -40C to +125C, IFSM for 25C

|           |      |    |    |      |    |    |     |     |     |     |     |     |
|-----------|------|----|----|------|----|----|-----|-----|-----|-----|-----|-----|
| CKH71-04A | 400  | 75 | 85 | 1450 | 50 | 15 | 150 | 1.5 | 200 | 400 | 1.7 | 230 |
| CKH71-06A | 600  | 75 | 85 | 1450 | 50 | 15 | 150 | 1.5 | 200 | 400 | 1.7 | 230 |
| CKH71-08A | 800  | 75 | 85 | 1450 | 50 | 15 | 150 | 1.5 | 200 | 400 | 1.7 | 230 |
| CKH71-10A | 1000 | 75 | 85 | 1450 | 50 | 15 | 150 | 1.5 | 200 | 400 | 1.7 | 230 |
| CKH71-12A | 1200 | 75 | 85 | 1450 | 50 | 15 | 150 | 1.5 | 200 | 400 | 1.7 | 230 |
| CKH71-14A | 1400 | 75 | 85 | 1450 | 50 | 15 | 150 | 1.5 | 200 | 400 | 1.7 | 230 |
| CKH71-16A | 1600 | 75 | 85 | 1450 | 50 | 15 | 150 | 1.5 | 200 | 400 | 1.7 | 230 |

**95AMP / DIODE-THYRISTOR- THYRISTOR / TO-240AA(ADD-A-PAK)** Tj of -40C to +125 C Tstg of -40C to +125 C IFSM for 25C

|           |      |    |    |      |    |    |     |     |     |     |     |     |
|-----------|------|----|----|------|----|----|-----|-----|-----|-----|-----|-----|
| CKH91-04A | 400  | 95 | 85 | 2050 | 50 | 15 | 150 | 1.5 | 200 | 400 | 1.7 | 280 |
| CKH91-06A | 600  | 95 | 85 | 2050 | 50 | 15 | 150 | 1.5 | 200 | 400 | 1.7 | 280 |
| CKH91-08A | 800  | 95 | 85 | 2050 | 50 | 15 | 150 | 1.5 | 200 | 400 | 1.7 | 280 |
| CKH91-10A | 1000 | 95 | 85 | 2050 | 50 | 15 | 150 | 1.5 | 200 | 400 | 1.7 | 280 |
| CKH91-12A | 1200 | 95 | 85 | 2050 | 50 | 15 | 150 | 1.5 | 200 | 400 | 1.7 | 280 |
| CKH91-14A | 1400 | 95 | 85 | 2050 | 50 | 15 | 150 | 1.5 | 200 | 400 | 1.7 | 280 |
| CKH91-16A | 1600 | 95 | 85 | 2050 | 50 | 15 | 150 | 1.5 | 200 | 400 | 1.7 | 280 |

**110AMP / DIODE- THYRISTOR / TO-240AA(ADD-A-PAK)** Tj of -40C to +125 C Tstg of -40C to +125C IFSM for 25C

|            |      |     |    |      |    |    |     |     |     |     |     |     |
|------------|------|-----|----|------|----|----|-----|-----|-----|-----|-----|-----|
| CKH110-04A | 400  | 110 | 85 | 2050 | 50 | 15 | 200 | 1.5 | 250 | 600 | 1.7 | 330 |
| CKH110-06A | 600  | 110 | 85 | 2050 | 50 | 15 | 200 | 1.5 | 250 | 600 | 1.7 | 330 |
| CKH110-08A | 800  | 110 | 85 | 2050 | 50 | 15 | 200 | 1.5 | 250 | 600 | 1.7 | 330 |
| CKH110-10A | 1000 | 110 | 85 | 2050 | 50 | 15 | 200 | 1.5 | 250 | 600 | 1.7 | 330 |
| CKH110-12A | 1200 | 110 | 85 | 2050 | 50 | 15 | 200 | 1.5 | 250 | 600 | 1.7 | 330 |
| CKH110-14A | 1400 | 110 | 85 | 2050 | 50 | 15 | 200 | 1.5 | 250 | 600 | 1.7 | 330 |
| CHK110-16A | 1600 | 110 | 85 | 2050 | 50 | 15 | 200 | 1.5 | 250 | 600 | 1.7 | 330 |

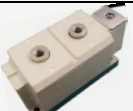
# Power Modules

## Thyristor & Diode modules

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| Package Type                                                                                             | VRRM ( V ) |      |      |      |       | IF / IT ( A ) |    |     |     |     |     |     |     |     |  |
|----------------------------------------------------------------------------------------------------------|------------|------|------|------|-------|---------------|----|-----|-----|-----|-----|-----|-----|-----|--|
|                                                                                                          | 1200       | 1600 | 1800 | 2200 | ≥3000 | 50            | 90 | 110 | 180 | 200 | 300 | 400 | 500 | 600 |  |
| <br>M1: TC / DC / FC / D |            |      |      |      |       |               |    |     |     |     |     |     |     |     |  |
| <br>M2: TC / FC          |            |      |      |      |       |               |    |     |     |     |     |     |     |     |  |
| <br>M3: TC / DC / FC / D |            |      |      |      |       |               |    |     |     |     |     |     |     |     |  |
| <br>Y1: TC/DC/FC/D      |            |      |      |      |       |               |    |     |     |     |     |     |     |     |  |

| Package Type                                                                                           | VRRM ( V ) |      |      |      |       | IF / IT ( A ) |    |     |     |     |     |     |     |     |  |
|--------------------------------------------------------------------------------------------------------|------------|------|------|------|-------|---------------|----|-----|-----|-----|-----|-----|-----|-----|--|
|                                                                                                        | 1200       | 1600 | 1800 | 2200 | ≥3000 | 50            | 90 | 110 | 180 | 200 | 300 | 400 | 500 | 600 |  |
| <br>Y2: TC/DC/FC/D  |            |      |      |      |       |               |    |     |     |     |     |     |     |     |  |
| <br>Y3: TC/DC/FC/D  |            |      |      |      |       |               |    |     |     |     |     |     |     |     |  |
| <br>Y4: TC/DC/FC/D  |            |      |      |      |       |               |    |     |     |     |     |     |     |     |  |
| <br>Y5: TC/DC/FC/D  |            |      |      |      |       |               |    |     |     |     |     |     |     |     |  |
| <br>Y6: TC/DC/FC/D  |            |      |      |      |       |               |    |     |     |     |     |     |     |     |  |
| <br>Y7: TC/DC/FC/D |            |      |      |      |       |               |    |     |     |     |     |     |     |     |  |

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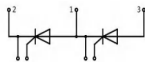
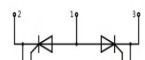
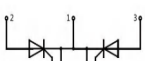
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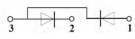
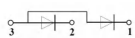
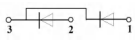
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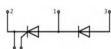
## Thyristor module list

| Type             | V <sub>RRM</sub> | I <sub>T(AV)</sub> @T <sub>C</sub> |    | I <sub>RRM</sub> | I <sub>GT</sub> | V <sub>GT</sub> | V <sub>TM</sub> @I <sub>TM</sub> | Package Type | Circuit |                                                                                   |
|------------------|------------------|------------------------------------|----|------------------|-----------------|-----------------|----------------------------------|--------------|---------|-----------------------------------------------------------------------------------|
|                  | V                | A                                  | °C | mA               | 25°C            | V               | 25°C                             |              |         |                                                                                   |
| YZPST-M-55TC-xx  | 600-1800         | 55                                 | 85 | 8                | 150             | 2.5             | 1.6                              | 170          | M1      |  |
| YZPST-M-70TC-xx  | 600-1800         | 70                                 | 85 | 10               | 150             | 2.5             | 1.7                              | 210          | M1      |                                                                                   |
| YZPST-M-90TC-xx  | 600-1800         | 90                                 | 85 | 10               | 150             | 2.5             | 1.9                              | 270          | M1      |                                                                                   |
| YZPST-M-110TC-xx | 600-1800         | 110                                | 85 | 12               | 150             | 2.5             | 1.8                              | 330          | M1/M2   |                                                                                   |
| YZPST-M-135TC-xx | 600-1800         | 135                                | 85 | 15               | 150             | 2.5             | 1.8                              | 410          | M3      |                                                                                   |
| YZPST-M-160TC-xx | 600-1800         | 160                                | 85 | 15               | 150             | 2.5             | 1.7                              | 480          | M3      |                                                                                   |
| YZPST-M-180TC-xx | 600-1800         | 180                                | 85 | 20               | 150             | 2.5             | 1.6                              | 550          | Y1      |                                                                                   |
| YZPST-M-250TC-xx | 600-1800         | 250                                | 85 | 35               | 180             | 2.5             | 1.6                              | 750          | Y2/Y4   |                                                                                   |
| YZPST-M-300TC-xx | 600-1800         | 300                                | 85 | 35               | 180             | 2.5             | 1.6                              | 900          | Y2/Y4   |                                                                                   |
| YZPST-M-350TC-xx | 600-1800         | 350                                | 85 | 35               | 180             | 2.5             | 1.5                              | 1050         | Y3/Y5   |                                                                                   |
| YZPST-M-400TC-xx | 600-1800         | 400                                | 85 | 35               | 200             | 3               | 1.5                              | 1200         | Y3/Y5   |  |
| YZPST-M-500TC-xx | 600-1800         | 500                                | 85 | 35               | 200             | 3               | 1.4                              | 1500         | Y6      |                                                                                   |
| YZPST-M-600TC-xx | 600-1800         | 600                                | 85 | 45               | 200             | 3               | 1.5                              | 1800         | Y7      |                                                                                   |
| YZPST-M-800TC-xx | 600-1800         | 800                                | 85 | 45               | 200             | 3               | 1.9                              | 2400         | Y7      |                                                                                   |
| YZPST-M-180TC-xx | 1900-2500        | 182                                | 85 | 25               | 150             | 2.5             | 2.0                              | 550          | Y1      |                                                                                   |
| YZPST-M-200TC-xx | 1900-2500        | 200                                | 85 | 30               | 180             | 2.5             | 1.9                              | 600          | Y2/Y4   |                                                                                   |
| YZPST-M-250TC-xx | 1900-2500        | 250                                | 85 | 30               | 180             | 2.5             | 1.7                              | 750          | Y2/Y4   |                                                                                   |
| YZPST-M-300TC-xx | 1900-2500        | 300                                | 85 | 40               | 200             | 2.5             | 2.0                              | 900          | Y3/Y5   |                                                                                   |
| YZPST-M-400TC-xx | 1900-2500        | 400                                | 85 | 40               | 200             | 3               | 1.9                              | 1200         | Y6      |                                                                                   |
| YZPST-M-500TC-xx | 1900-2500        | 500                                | 85 | 40               | 200             | 3               | 1.9                              | 1500         | Y6      |                                                                                   |
| YZPST-M-600TC-xx | 1900-2500        | 600                                | 85 | 50               | 200             | 3               | 1.8                              | 1800         | Y7      |  |
| YZPST-M-250TC-xx | 2600-3600        | 250                                | 85 | 40               | 180             | 2.5             | 2.6                              | 750          | Y2-G    |                                                                                   |
| YZPST-M-300TC-xx | 2600-3600        | 300                                | 85 | 55               | 180             | 2.5             | 2.5                              | 900          | Y3-G    |                                                                                   |
| YZPST-M-400TC-xx | 2600-3600        | 400                                | 85 | 55               | 200             | 3               | 2.4                              | 1200         | Y7-G    |                                                                                   |

## Diode module list

| Type              | V <sub>RRM</sub> |      | IF(AV)@DC |    | I <sub>RRM</sub> | V <sub>FM</sub> @I <sub>FM</sub> |       | Package Type | Circuit                                                                                   |
|-------------------|------------------|------|-----------|----|------------------|----------------------------------|-------|--------------|-------------------------------------------------------------------------------------------|
|                   | V                | A    | °C        | mA |                  | 150°C                            | 25°C  |              |                                                                                           |
| YZPST-M-55DC-xx   | 800-1800         | 55   | 100       | 8  | 1.35             | 170                              | M1    |              | <br>DC |
| YZPST-M-70DC-xx   | 800-1800         | 70   | 100       | 8  | 1.35             | 210                              | M1    |              |                                                                                           |
| YZPST-M-90DC-xx   | 800-1800         | 90   | 100       | 8  | 1.35             | 270                              | M1    |              |                                                                                           |
| YZPST-M-110DC-xx  | 800-1800         | 110  | 100       | 10 | 1.45             | 330                              | M1/M2 |              |                                                                                           |
| YZPST-M-135DC-xx  | 800-1800         | 135  | 100       | 12 | 1.45             | 410                              | M3    |              |                                                                                           |
| YZPST-M-160DC-xx  | 800-1800         | 160  | 100       | 12 | 1.50             | 480                              | M3    |              |                                                                                           |
| YZPST-M-180DC-xx  | 800-1800         | 180  | 100       | 12 | 1.45             | 550                              | M3    |              |                                                                                           |
| YZPST-M-200DC-xx  | 800-1800         | 200  | 100       | 12 | 1.45             | 600                              | M3    |              |                                                                                           |
| YZPST-M-350DC-xx  | 800-1800         | 350  | 100       | 30 | 1.50             | 1050                             | Y2/Y4 |              |                                                                                           |
| YZPST-M-400DC-xx  | 800-1800         | 400  | 100       | 30 | 1.50             | 1200                             | Y3/Y5 |              |                                                                                           |
| YZPST-M-500DC-xx  | 800-1800         | 500  | 100       | 30 | 1.50             | 1800                             | Y6    |              | <br>DA |
| YZPST-M-600DC-xx  | 800-1800         | 600  | 100       | 30 | 1.50             | 1800                             | Y7    |              |                                                                                           |
| YZPST-M-800DC-xx  | 800-1800         | 800  | 100       | 40 | 1.80             | 2400                             | Y7    |              |                                                                                           |
| YZPST-M-1000DC-xx | 800-1800         | 1000 | 100       | 40 | 1.85             | 3000                             | Y7    |              |                                                                                           |
| YZPST-M-2000DC-xx | 1900-2500        | 200  | 100       | 12 | 1.48             | 600                              | Y1    |              |                                                                                           |
| YZPST-M-250DC-xx  | 1900-2500        | 250  | 100       | 20 | 1.52             | 900                              | Y2/Y4 |              |                                                                                           |
| YZPST-M-300DC-xx  | 1900-2500        | 300  | 100       | 20 | 1.55             | 900                              | Y2/Y4 |              |                                                                                           |
| YZPST-M-350DC-xx  | 1900-2500        | 350  | 100       | 30 | 1.60             | 1200                             | Y3/Y5 |              |                                                                                           |
| YZPST-M-400DC-xx  | 1900-2500        | 400  | 100       | 30 | 1.55             | 1200                             | Y3/Y5 |              |                                                                                           |
| YZPST-M-500DC-xx  | 1900-2500        | 500  | 100       | 40 | 1.60             | 1800                             | Y6    |              |                                                                                           |
| YZPST-M-600DC-xx  | 1900-2500        | 600  | 100       | 40 | 1.53             | 1800                             | Y6    |              | <br>DK |
| YZPST-M-800DC-xx  | 1900-2500        | 800  | 100       | 45 | 2.00             | 3000                             | Y7    |              |                                                                                           |
| YZPST-M-2500DC-xx | 2600-3600        | 250  | 100       | 30 | 1.85             | 750                              | Y2-G  |              |                                                                                           |
| YZPST-M-3000DC-xx | 2600-3600        | 300  | 100       | 45 | 2.05             | 900                              | Y3-G  |              |                                                                                           |
| YZPST-M-4000DC-xx | 2600-3600        | 400  | 100       | 50 | 2.05             | 1200                             | Y7-G  |              |                                                                                           |

## Thyristor-Diode module list

| Type                | V <sub>RRM</sub> | IT(AV)@F<br>C |    | I <sub>RRM</sub> | I <sub>GT</sub> | V <sub>GT</sub> | V <sub>TM</sub> @I <sub>TM</sub> |      | Package<br>Type | Circuit                                                                             |
|---------------------|------------------|---------------|----|------------------|-----------------|-----------------|----------------------------------|------|-----------------|-------------------------------------------------------------------------------------|
|                     | V                | A             | °C | mA               | mA              | V               | V                                | A    |                 |                                                                                     |
| YZPST-M-55FC<br>xx  | 600-1800         | 55            | 85 | 8                | 150             | 2.5             | 1.6                              | 170  | M1              |  |
| YZPST-M-70FC<br>xx  | 600-1800         | 70            | 85 | 10               | 150             | 2.5             | 1.7                              | 210  | M1              |                                                                                     |
| YZPST-M-90FC<br>xx  | 600-1800         | 90            | 85 | 10               | 150             | 2.5             | 1.9                              | 270  | M1              |                                                                                     |
| YZPST-M-110FC<br>xx | 600-1800         | 110           | 85 | 12               | 150             | 2.5             | 1.8                              | 330  | M1/M2           |                                                                                     |
| YZPST-M-135FC<br>xx | 600-1800         | 135           | 85 | 15               | 150             | 2.5             | 1.8                              | 410  | M3              |                                                                                     |
| YZPST-M-160FC<br>xx | 600-1800         | 160           | 85 | 15               | 150             | 2.5             | 1.7                              | 480  | M3              |                                                                                     |
| YZPST-M-180FC<br>xx | 600-1800         | 180           | 85 | 20               | 150             | 2.5             | 1.6                              | 550  | Y1              |                                                                                     |
| YZPST-M-250FC<br>xx | 600-1800         | 250           | 85 | 35               | 180             | 2.5             | 1.6                              | 750  | Y2/Y4           |                                                                                     |
| YZPST-M-300FC<br>xx | 600-1800         | 300           | 85 | 35               | 180             | 2.5             | 1.6                              | 900  | Y2/Y4           |                                                                                     |
| YZPST-M-350FC<br>xx | 600-1800         | 350           | 85 | 35               | 180             | 2.5             | 1.5                              | 1050 | Y3/Y5           |                                                                                     |
| YZPST-M-400FC<br>xx | 600-1800         | 400           | 85 | 35               | 200             | 3               | 1.5                              | 1200 | Y3/Y5           |  |
| YZPST-M-500FC<br>xx | 600-1800         | 500           | 85 | 35               | 200             | 3               | 1.4                              | 1500 | Y6              |                                                                                     |
| YZPST-M-600FC<br>xx | 600-1800         | 600           | 85 | 45               | 200             | 3               | 1.5                              | 1800 | Y7              |                                                                                     |
| YZPST-M-800FC<br>xx | 600-1800         | 800           | 85 | 45               | 200             | 3               | 1.9                              | 2400 | Y7              |                                                                                     |
| YZPST-M-180FC<br>xx | 1900-2500        | 182           | 85 | 25               | 150             | 2.5             | 2.0                              | 550  | Y1              |                                                                                     |
| YZPST-M-200FC<br>xx | 1900-2500        | 200           | 85 | 30               | 180             | 2.5             | 1.9                              | 600  | Y2/Y4           |                                                                                     |
| YZPST-M-250FC<br>xx | 1900-2500        | 250           | 85 | 30               | 180             | 2.5             | 1.7                              | 750  | Y2/Y4           |                                                                                     |
| YZPST-M-300FC<br>xx | 1900-2500        | 300           | 85 | 40               | 200             | 2.5             | 2.0                              | 900  | Y3/Y5           |                                                                                     |
| YZPST-M-400FC<br>xx | 1900-2500        | 400           | 85 | 40               | 200             | 3               | 1.9                              | 1200 | Y6              |                                                                                     |
| YZPST-M-500FC<br>xx | 1900-2500        | 500           | 85 | 40               | 200             | 3               | 1.9                              | 1500 | Y6              |                                                                                     |
| YZPST-M-600FC<br>xx | 1900-2500        | 600           | 85 | 50               | 200             | 3               | 1.8                              | 1800 | Y7              |  |
| YZPST-M-250FC<br>xx | 2600-3600        | 250           | 85 | 40               | 180             | 2.5             | 2.6                              | 750  | Y2-G            |                                                                                     |
| YZPST-M-300FC<br>xx | 2600-3600        | 300           | 85 | 55               | 180             | 2.5             | 2.5                              | 900  | Y3-G            |                                                                                     |
| YZPST-M-400FC<br>xx | 2600-3600        | 400           | 85 | 55               | 200             | 3               | 2.4                              | 1200 | Y7-G            |                                                                                     |

# Power Modules



YANGZHOU POSITIONING TECH. CO., LTD

## Triacs module

| Part Number | Package | RRM       | Io | IFSM | IGT      | VGT | IH |
|-------------|---------|-----------|----|------|----------|-----|----|
|             |         | V         | A  | A    | mA (Max) | V   | mA |
| FCKET4 0    | TO-3    | 800-1200  | 40 | 400  | 50       | 1.5 | 80 |
| FCKET5 5    | TO-3    | 1200-1600 | 55 | 550  | 50       | 1.5 | 80 |

| Part No.   | Repetitive Peak Off-state Voltage | Maximum Average Forward Rectified Current |   | Peak forward Surge Current 8.3ms Single Half Sine-Wave Superimposed On Rated Load | Maximum DC Instantaneous Reverse Current @ VRRM |     | Maximum DC Gate Trigger Current @VD= 12V | Maximum DC Gate Trigger Voltage @VD= 12V | Maximum Holding Current | Maximum Holding Current | Maximum Instantaneous Forward Voltage @ 25C |                |
|------------|-----------------------------------|-------------------------------------------|---|-----------------------------------------------------------------------------------|-------------------------------------------------|-----|------------------------------------------|------------------------------------------|-------------------------|-------------------------|---------------------------------------------|----------------|
|            |                                   |                                           |   |                                                                                   |                                                 |     |                                          |                                          |                         |                         |                                             |                |
|            |                                   |                                           |   |                                                                                   |                                                 |     |                                          |                                          |                         |                         |                                             |                |
|            |                                   |                                           |   |                                                                                   |                                                 |     |                                          |                                          |                         |                         |                                             |                |
| VRRM/VD RM | Io@ Tc                            | IFSM                                      |   | IR@ Tj                                                                            |                                                 | IGT | VGT                                      | IH                                       | IL                      | TM                      | IF                                          |                |
| @ 25C      |                                   |                                           |   | @ 125C                                                                            | Q I , II , III                                  |     |                                          |                                          |                         |                         |                                             | Q I , II , III |
| V PK       | A                                 | C                                         | A | μ A                                                                               | mA                                              | mA  | V                                        | mA                                       | mA                      | V                       | A                                           |                |



<https://www.yzpst.com/thyristor-module/62466026.html>

### 40AMP / TRIACS / TO-3

|            |      |    |    |     |    |   |    |     |    |     |     |    |
|------------|------|----|----|-----|----|---|----|-----|----|-----|-----|----|
| FCKET40A08 | 800  | 40 | 64 | 420 | 10 | 5 | 50 | 1.5 | 60 | 150 | 1.5 | 60 |
| FCKET40A12 | 1200 | 40 | 64 | 420 | 10 | 5 | 50 | 1.5 | 60 | 150 | 1.5 | 60 |

Tj of -40°C to +125°C Tstg of -40°C to +150°C IFSM for 25°C

### 55AMP / TRIACS / TO-3

|            |      |    |    |     |    |   |    |     |    |     |     |    |
|------------|------|----|----|-----|----|---|----|-----|----|-----|-----|----|
| FCKET55A12 | 1200 | 40 | 64 | 550 | 10 | 5 | 50 | 1.5 | 80 | 200 | 1.5 | 80 |
| FCKET55A16 | 1600 | 40 | 64 | 550 | 10 | 5 | 50 | 1.5 | 80 | 200 | 1.5 | 80 |

Tj of -40°C to +125°C Tstg of -40°C to +150°C IFSM for 25°C

## Fast Recovery Diode (FRD) Module

| Part Number | Package  | V <sub>RRM</sub> | I <sub>O</sub> | I <sub>FSM</sub> | T <sub>RR</sub> |
|-------------|----------|------------------|----------------|------------------|-----------------|
|             |          | V                | A              | A                | ns              |
| EKCEF105    | D-67     | 400-600          | 105            | 500              | 200             |
| EKCEF135    | D-67     | 400-600          | 135            | 870              | 200             |
| EKCEF180    | D-67     | 400-600          | 180            | 1370             | 200             |
| BCK3F060    | SOT227   | 400-1200         | 30             | 350              | 200             |
| BCK3F120    | SOT227   | 400-1200         | 60             | 500              | 200             |
| BCK3F140    | SOT227   | 400-1200         | 70             | 870              | 200             |
| BCK2F060    | SOT227   | 400-1200         | 30             | 350              | 200             |
| BCK2F120    | SOT227   | 400-1200         | 60             | 500              | 200             |
| BCK2F140    | SOT227   | 400-1200         | 70             | 870              | 200             |
| CCMDF200    | TO-244AB | 400-600          | 200            | 1250             | 150             |
| DCMDF200    | TO-244AB | 400-600          | 200            | 1250             | 150             |

| Part No. | Maximum Recurrent Peak Reverse Voltage | Maximum Average Forward Rectified Current at Per Pak |   | Peak forward Surge Current 8.3ms Single Half Sine-Wave Superimposed On Rated Load at Per leg | Maximum DC Instantaneous Reverse Current at Per leg @ V <sub>RRM</sub> |         | Maximum Instantaneous Forward Voltage at Per leg @ 25°C |                | Maximum Reverse Recovery Time at Per leg |
|----------|----------------------------------------|------------------------------------------------------|---|----------------------------------------------------------------------------------------------|------------------------------------------------------------------------|---------|---------------------------------------------------------|----------------|------------------------------------------|
|          | V <sub>RRM</sub>                       | I <sub>O</sub> @ T <sub>c</sub>                      |   | I <sub>FSM</sub>                                                                             | I <sub>R</sub> @ T <sub>j</sub>                                        |         | F                                                       | I <sub>F</sub> | T <sub>rr</sub>                          |
|          |                                        |                                                      |   |                                                                                              | @ 25°C                                                                 | @ 125°C |                                                         |                |                                          |
|          | VPK                                    | A                                                    | C | A                                                                                            | μ A                                                                    | mA      | V                                                       | A              | ns                                       |

**105AMP / Fast Recovery / D-67(Half- -Pak)** T<sub>j</sub> of -55°C to +150°C, T<sub>stg</sub> of -55°C to +150°C, I<sub>FSM</sub> for 25°C

|             |     |     |     |     |   |   |      |     |     |
|-------------|-----|-----|-----|-----|---|---|------|-----|-----|
| EKCEF105A04 | 400 | 105 | 100 | 500 | 5 | 3 | 1.25 | 105 | 200 |
| EKCEF105A06 | 600 | 105 | 100 | 500 | 5 | 3 | 1.25 | 105 | 200 |

**135AMP / Fast Recovery / D-67(Half- -Pak)** T<sub>j</sub> of -55°C to +150°C, T<sub>stg</sub> of -55°C to +150°C, I<sub>FSM</sub> for 25°C

|             |     |     |     |     |   |   |     |     |     |
|-------------|-----|-----|-----|-----|---|---|-----|-----|-----|
| EKCEF135A04 | 400 | 135 | 100 | 870 | 5 | 3 | 1.1 | 135 | 200 |
| EKCEF135A06 | 600 | 135 | 100 | 870 | 5 | 3 | 1.1 | 135 | 200 |

**180AMP / Fast Recovery / D-67(Half- -Pak)** T<sub>j</sub> of -55°C to +150°C, T<sub>stg</sub> of -55°C to +150°C, I<sub>FSM</sub> for 25°C

|             |     |     |     |      |   |   |     |     |     |
|-------------|-----|-----|-----|------|---|---|-----|-----|-----|
| EKCEF180A04 | 400 | 180 | 100 | 1370 | 5 | 3 | 1.3 | 180 | 200 |
| EKCEF180A06 | 600 | 180 | 100 | 1370 | 5 | 3 | 1.3 | 180 | 200 |



## Fast Recovery Diode (FRD) Module

| Part No. | Maximum Recurrent<br>Peak Reverse<br>Voltage | Maximum Average Forward<br>Rectified Current at Per Pak |   | Peak forward Surge Current<br>8.3 ms Single Half Sine-Wave<br>Superimposed On Rated<br>Load at Per leg | Maximum DC Instantaneous<br>Reverse Current at Per leg @ $V_{RRM}$ |               | Maximum Instantaneous<br>Forward Voltage at Per leg<br>@ 25°C |       | Maximum Reverse Recovery Time<br>at Per leg |
|----------|----------------------------------------------|---------------------------------------------------------|---|--------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|---------------|---------------------------------------------------------------|-------|---------------------------------------------|
|          | $V_{RRM}$                                    | $I_{o@T_c}$                                             |   | $I_{FSM}$                                                                                              | $I_R @ T_j$                                                        |               | F                                                             | $I_F$ | $T_{rr}$                                    |
|          | $V_{PK}$                                     | A                                                       | C | A                                                                                                      | @ 25°C<br>μA                                                       | @ 125°C<br>mA |                                                               |       |                                             |
|          |                                              |                                                         |   |                                                                                                        |                                                                    |               | V                                                             | A     | ns                                          |

### 60AMP / Fast Recovery / SOT-227 $T_j$ of -55°C to +150°C, $T_{stg}$ of -55°C to +150°C, $I_{FSM}$ for 25°C

|             |      |    |     |     |   |   |      |    |     |
|-------------|------|----|-----|-----|---|---|------|----|-----|
| BCK3F060A04 | 400  | 30 | 120 | 350 | 5 | 3 | 1.25 | 30 | 200 |
| BCK3F060A06 | 600  | 30 | 120 | 350 | 5 | 3 | 1.25 | 30 | 200 |
| BCK3F060A12 | 1200 | 30 | 120 | 350 | 5 | 3 | 1.25 | 30 | 200 |

### 120AMP / Fast Recovery / SOT-227 $T_j$ of -55°C to +150°C $T_{stg}$ of -55°C to +150°C $I_{FSM}$ for 25°C

|             |      |    |     |     |   |   |      |    |     |
|-------------|------|----|-----|-----|---|---|------|----|-----|
| BCK3F120A04 | 400  | 60 | 100 | 500 | 5 | 3 | 1.25 | 60 | 200 |
| BCK3F120A06 | 600  | 60 | 100 | 500 | 5 | 3 | 1.25 | 60 | 200 |
| BCK3F120A12 | 1200 | 60 | 100 | 500 | 5 | 3 | 1.25 | 60 | 200 |

### 140AMP / Fast Recovery / SOT-227 $T_j$ of -55°C to +150°C, $T_{stg}$ of -55°C to +150°C, $I_{FSM}$ for 25°C

|             |      |    |    |      |   |   |     |    |     |
|-------------|------|----|----|------|---|---|-----|----|-----|
| BCK3F140A04 | 400  | 70 | 85 | 1000 | 5 | 3 | 1.3 | 70 | 200 |
| BCK3F140A06 | 600  | 70 | 85 | 1000 | 5 | 3 | 1.3 | 70 | 200 |
| BCK3F140A12 | 1200 | 70 | 85 | 1000 | 5 | 3 | 1.3 | 70 | 200 |

### 60AMP / Fast Recovery / SOT-227 $T_j$ of -55°C to +150°C, $T_{stg}$ of -55°C to +150°C, $I_{FSM}$ for 25°C

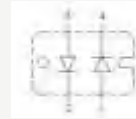
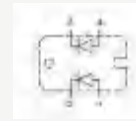
|             |      |    |     |     |   |   |      |    |     |
|-------------|------|----|-----|-----|---|---|------|----|-----|
| BCK2F060A04 | 400  | 30 | 120 | 350 | 5 | 3 | 1.25 | 30 | 200 |
| BCK2F060A06 | 600  | 30 | 120 | 350 | 5 | 3 | 1.25 | 30 | 200 |
| BCK2F060A12 | 1200 | 30 | 120 | 350 | 5 | 3 | 1.25 | 30 | 200 |

### 120AMP / Fast Recovery / SOT-227 $T_j$ of -55°C to +150°C $T_{stg}$ of -55°C to +150°C $I_{FSM}$ for 25°C

|             |      |    |     |     |   |   |      |    |     |
|-------------|------|----|-----|-----|---|---|------|----|-----|
| BCK2F120A04 | 400  | 60 | 100 | 500 | 5 | 3 | 1.25 | 60 | 200 |
| BCK2F120A06 | 600  | 60 | 100 | 500 | 5 | 3 | 1.25 | 60 | 200 |
| BCK2F120A12 | 1200 | 60 | 100 | 500 | 5 | 3 | 1.25 | 60 | 200 |

### 140AMP / Fast Recovery / SOT-227 $T_j$ of -55°C to +150°C $T_{stg}$ of -55°C to +150°C $I_{FSM}$ for 25°C

|             |      |    |    |      |   |   |     |    |     |
|-------------|------|----|----|------|---|---|-----|----|-----|
| BCK2F140A04 | 400  | 70 | 85 | 1000 | 5 | 3 | 1.3 | 70 | 200 |
| BCK2F140A06 | 600  | 70 | 85 | 1000 | 5 | 3 | 1.3 | 70 | 200 |
| BCK2F140A12 | 1200 | 70 | 85 | 1000 | 5 | 3 | 1.3 | 70 | 200 |



## Fast Recovery Diode (FRD) Module

| Part No. | Maximum Recurrent Peak Reverse Voltage | Maximum Average Forward Rectified Current at Per Pak |   | Peak forward Surge Current<br>8.3 ms Single Half Sine-Wave<br>Superimposed On Rated Load at Per leg | Maximum DC Instantaneous Reverse Current at Per leg @ $V_{RRM}$ |               | Maximum Instantaneous Forward Voltage at Per leg @ 25°C |       | Maximum Reverse Recovery Time at Per leg |
|----------|----------------------------------------|------------------------------------------------------|---|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|---------------|---------------------------------------------------------|-------|------------------------------------------|
|          | $V_{RRM}$                              | $I_o @ T_c$                                          |   | $I_{FSM}$                                                                                           | $I_R @ T_j$                                                     |               | F                                                       | $I_F$ | $T_{rr}$                                 |
|          | VPK                                    | A                                                    | C | A                                                                                                   | @ 25°C<br>$\mu A$                                               | @ 125°C<br>mA |                                                         |       |                                          |

**200AMP / Fast Recovery /TO-244AB (Non -Isolated )**  $T_j$  of -55°C to +150°C  $T_{stg}$  of -55°C to +150°C  $I_{FSM}$  for 25°C

|             |     |     |     |      |   |   |     |     |     |
|-------------|-----|-----|-----|------|---|---|-----|-----|-----|
| CCMDF200A04 | 400 | 200 | 100 | 1250 | 5 | 3 | 1.4 | 100 | 150 |
| CCMDF200A06 | 600 | 200 | 100 | 1250 | 5 | 3 | 1.4 | 100 | 150 |



**200AMP / Fast Recovery /TO-244AB (Isolated)**  $T_j$  of -55°C to +150°C  $T_{stg}$  of -55°C to +150°C  $I_{FSM}$  for 25°C

|             |     |     |     |      |   |   |     |     |     |
|-------------|-----|-----|-----|------|---|---|-----|-----|-----|
| DCMDF200A04 | 400 | 200 | 100 | 1250 | 5 | 3 | 1.4 | 100 | 150 |
| DCMDF200A06 | 600 | 200 | 100 | 1250 | 5 | 3 | 1.4 | 100 | 150 |



<https://www.yzpst.com/diode-module/55099762.html>



<https://www.yzpst.net/fast-recovery-diode-module-15893418212471628.html>

<https://www.yzpst.net/1200v-fast-recovery-epitaxial-diode-module-16209816100385407.html>

## Ultrafast Recovery Diode Module

| Part Number | Package  | VRRM     | IO  | IFSM | TRR   |
|-------------|----------|----------|-----|------|-------|
|             |          | V        | A   | A    | ns    |
| ECKEU105    | D-67     | 400-600  | 105 | 600  | 60    |
| ECKEU135    | D-67     | 400-600  | 135 | 1000 | 60    |
| ECKEU180    | D-67     | 400-600  | 180 | 1500 | 60    |
| BCK3U060    | SOT227   | 400-1200 | 30  | 500  | 60-70 |
| BCK3U120    | SOT227   | 400-1200 | 60  | 600  | 60-70 |
| BCK3U140    | SOT227   | 400-1200 | 70  | 1000 | 60-70 |
| BCK2U060    | SOT227   | 400-1200 | 30  | 500  | 60-70 |
| BCK2U120    | SOT227   | 400-1200 | 60  | 600  | 60-70 |
| BCK2U140    | SOT227   | 400-1200 | 70  | 1000 | 60-70 |
| CCMDU200    | TO-244AB | 400-600  | 200 | 1000 | 60    |
| DCMDU200    | TO-244AB | 400-600  | 200 | 1000 | 60    |
| CCMDU280    | TO-244AB | 400-600  | 280 | 1500 | 60    |
| DCMDU280    | TO-244AB | 400-600  | 280 | 1500 | 60    |
| DCMDU320    | TO-244AB | 400-600  | 320 | 1750 | 60    |
| CCMDU320    | TO-244AB | 400-600  | 320 | 1750 | 60    |

| Part No. | Maximum Recurrent Peak Reverse Voltage | Maximum Average Forward Rectified Current at Per Pak |   | Peak forward Surge Current 8.3ms Single Half Sine-Wave Superimposed On Rated Load at Per leg | Maximum DC Instantaneous Reverse Current at Per leg @ VRRM |         | Maximum Instantaneous Forward Voltage at Per leg @ 25°C |    | Maximum Reverse Recovery Time at Per leg |
|----------|----------------------------------------|------------------------------------------------------|---|----------------------------------------------------------------------------------------------|------------------------------------------------------------|---------|---------------------------------------------------------|----|------------------------------------------|
|          | VRRM                                   | Io@ Tc                                               |   | IFSM                                                                                         | Ir@ Tj                                                     |         | F                                                       | If | Trr                                      |
|          |                                        |                                                      |   |                                                                                              | @ 25°C                                                     | @ 125°C |                                                         |    |                                          |
|          | VPK                                    | A                                                    | C | A                                                                                            | μA                                                         | mA      | V                                                       | A  | ns                                       |

**105AMP / UltraFast Recovery / D-67(Half- -Pak)** Tj of -55°C to +150°C Tstg of -55°C to +150°C IFSM for 25°C

|             |     |     |     |     |   |   |     |     |    |
|-------------|-----|-----|-----|-----|---|---|-----|-----|----|
| EKCEU105A04 | 400 | 105 | 100 | 600 | 5 | 3 | 1.2 | 105 | 60 |
| EKCEU105A06 | 600 | 105 | 100 | 600 | 5 | 3 | 1.2 | 105 | 60 |

**135AMP / UltraFast Recovery / D-67(Half- -Pak)** Tj of -55°C to +150°C Tstg of -55°C to +150°C IFSM for 25°C

|             |     |     |     |      |   |   |      |     |    |
|-------------|-----|-----|-----|------|---|---|------|-----|----|
| EKCEU135A04 | 400 | 135 | 100 | 1000 | 5 | 3 | 1.25 | 135 | 60 |
| EKCEU135A06 | 600 | 135 | 100 | 1000 | 5 | 3 | 1.25 | 135 | 60 |

**180AMP / UltraFast Recovery / D-67(Half- -Pak)** Tj of -55°C to +150°C Tstg of -55°C to +150°C IFSM for 25°C

|             |     |     |     |      |   |   |     |     |    |
|-------------|-----|-----|-----|------|---|---|-----|-----|----|
| EKCEU180A04 | 400 | 180 | 100 | 1500 | 5 | 3 | 1.3 | 180 | 60 |
| EKCEU180A06 | 600 | 180 | 100 | 1500 | 5 | 3 | 1.3 | 180 | 60 |

**60AMP / UltraFast Recovery / SOT-227** Tj of -55°C to +150°C Tstg of -55°C to +150°C IFSM for 25°C

|             |      |    |     |     |   |   |      |    |    |
|-------------|------|----|-----|-----|---|---|------|----|----|
| BCK3U060A04 | 400  | 30 | 120 | 500 | 5 | 3 | 1.25 | 30 | 60 |
| BCK3U060A06 | 600  | 30 | 120 | 500 | 5 | 3 | 1.25 | 30 | 60 |
| BCK3U060A12 | 1200 | 30 | 120 | 500 | 5 | 3 | 1.25 | 30 | 70 |

**120AMP / UltraFast Recovery / SOT-227** Tj of -55°C to +150°C Tstg of -55°C to +150°C IFSM for 25°C

|             |      |    |     |     |   |   |      |    |    |
|-------------|------|----|-----|-----|---|---|------|----|----|
| BCK3U120A04 | 400  | 60 | 100 | 600 | 5 | 3 | 1.25 | 30 | 60 |
| BCK3U120A06 | 600  | 60 | 100 | 600 | 5 | 3 | 1.25 | 30 | 60 |
| BCK3U120A12 | 1200 | 60 | 100 | 600 | 5 | 3 | 1.25 | 30 | 70 |

**140AMP / UltraFast Recovery / SOT-227** Tj of -55°C to +150°C Tstg of -55°C to +150°C IFSM for 25°C

|             |      |    |    |      |   |   |      |    |    |
|-------------|------|----|----|------|---|---|------|----|----|
| BCK3U140A04 | 400  | 70 | 85 | 1000 | 5 | 3 | 1.25 | 70 | 60 |
| BCK3U140A06 | 600  | 70 | 85 | 1000 | 5 | 3 | 1.25 | 70 | 60 |
| BCK3U140A12 | 1200 | 70 | 85 | 1000 | 5 | 3 | 1.3  | 70 | 70 |



<https://www.yzpst.com/diode-module/57782307.html>

Click the link and send us your inquiries.

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## Fast Recovery Diode (FRD) Module

| Part No. | Maximum Recurrent<br>Peak Reverse<br>Voltage | Maximum Average Forward<br>Rectified Current at Per Pak |   | Peak forward Surge Current<br>8.3 ms Single Half Sine-Wave<br>Superimposed On Rated<br>Load at Per leg | Maximum DC Instantaneous<br>Reverse Current at Per leg @ $V_{RRM}$ |               | Maximum Instantaneous<br>Forward Voltage at Per leg<br>@ 25°C |       | Maximum Reverse Recovery Time<br>at Per leg |
|----------|----------------------------------------------|---------------------------------------------------------|---|--------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|---------------|---------------------------------------------------------------|-------|---------------------------------------------|
|          | $V_{RRM}$                                    | $I_{o@T_c}$                                             |   | $I_{FSM}$                                                                                              | $I_R @ T_J$                                                        |               | F                                                             | $I_F$ | $T_{rr}$                                    |
|          | $V_{PK}$                                     | A                                                       | C | A                                                                                                      | @ 25°C<br>μA                                                       | @ 125°C<br>mA |                                                               |       |                                             |
|          |                                              |                                                         |   |                                                                                                        |                                                                    |               | V                                                             | A     | ns                                          |

**60AMP / UltraFast Recovery / SOT-227**  $T_J$  of -55°C to +150°C,  $T_{stg}$  of -55°C to +150°C,  $I_{FSM}$  for 25°C

|             |      |    |     |     |   |   |      |    |    |
|-------------|------|----|-----|-----|---|---|------|----|----|
| BCK2U060A04 | 400  | 30 | 120 | 500 | 5 | 3 | 1.25 | 30 | 60 |
| BCK2U060A06 | 600  | 30 | 120 | 500 | 5 | 3 | 1.25 | 30 | 60 |
| BCK2U060A12 | 1200 | 30 | 120 | 500 | 5 | 3 | 1.25 | 30 | 70 |

**120AMP / UltraFast Recovery / SOT-227**  $T_J$  of -55°C to +150°C,  $T_{stg}$  of -55°C to +150°C,  $I_{FSM}$  for 25°C

|             |      |    |     |     |   |   |      |    |    |
|-------------|------|----|-----|-----|---|---|------|----|----|
| BCK2U120A04 | 400  | 60 | 100 | 600 | 5 | 3 | 1.25 | 60 | 60 |
| BCK2U120A06 | 600  | 60 | 100 | 600 | 5 | 3 | 1.25 | 60 | 60 |
| BCK2U120A12 | 1200 | 60 | 100 | 600 | 5 | 3 | 1.25 | 60 | 70 |

**140AMP / UltraFast Recovery / SOT-227**  $T_J$  of -55°C to +150°C,  $T_{stg}$  of -55°C to +150°C,  $I_{FSM}$  for 25°C

|             |      |    |     |      |   |   |      |    |    |
|-------------|------|----|-----|------|---|---|------|----|----|
| BCK2U140A04 | 400  | 70 | 100 | 1000 | 5 | 3 | 1.25 | 70 | 60 |
| BCK2U140A06 | 600  | 70 | 100 | 1000 | 5 | 3 | 1.25 | 70 | 60 |
| BCK2U140A12 | 1200 | 70 | 100 | 1000 | 5 | 3 | 1.3  | 70 | 70 |

**200AMP / UltraFast Recovery /TO-244AB (Non -Isolated )**  $T_J$  of -55°C to +150°C,  $T_{stg}$  of -55°C to +150°C,  $I_{FSM}$  for 25°C

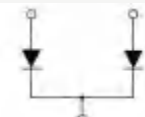
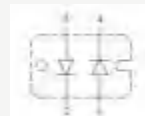
|             |     |     |     |      |   |   |     |     |    |
|-------------|-----|-----|-----|------|---|---|-----|-----|----|
| CCMDU200A04 | 400 | 200 | 120 | 1000 | 5 | 3 | 1.4 | 100 | 60 |
| CCMDU200A06 | 600 | 200 | 120 | 1000 | 5 | 3 | 1.4 | 100 | 60 |

**280AMP / UltraFast Recovery /TO-244AB (Non -Isolated )**  $T_J$  of -55°C to +150°C,  $T_{stg}$  of -55°C to +150°C,  $I_{FSM}$  for 25°C

|             |     |     |     |      |   |   |     |     |    |
|-------------|-----|-----|-----|------|---|---|-----|-----|----|
| CCMDU280A04 | 400 | 280 | 120 | 1500 | 5 | 3 | 1.4 | 140 | 60 |
| CCMDU280A06 | 600 | 280 | 120 | 1500 | 5 | 3 | 1.4 | 140 | 70 |

**320AMP / UltraFast Recovery /TO-244AB (Non -Isolated )**  $T_J$  of -40°C to +150°C,  $T_{stg}$  of -40°C to +150°C,  $I_{FSM}$  for 25°C

|             |     |     |     |      |   |   |     |     |    |
|-------------|-----|-----|-----|------|---|---|-----|-----|----|
| CCMDU320A04 | 400 | 200 | 120 | 1750 | 5 | 3 | 1.4 | 160 | 60 |
| CCMDU320A06 | 600 | 200 | 120 | 1750 | 5 | 3 | 1.4 | 160 | 60 |



## Fast Recovery Diode (FRD) Module

| Part No. | Maximum Recurrent<br>Peak Reverse<br>Voltage | Maximum Average Forward<br>Rectified Current at Per Pak |   | Peak forward Surge Current<br>8.3 ms Single Half Sine-Wave<br>Superimposed On Rated<br>Load at Per leg | Maximum DC Instantaneous<br>Reverse Current at Per leg @ $V_{RRM}$ |         | Maximum Instantaneous<br>Forward Voltage at Per leg<br>@ 25°C |       | Maximum Reverse Recovery Time<br>at Per leg |
|----------|----------------------------------------------|---------------------------------------------------------|---|--------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|---------|---------------------------------------------------------------|-------|---------------------------------------------|
|          | $V_{RRM}$                                    | $I_o @ T_c$                                             |   | $I_{FSM}$                                                                                              | $I_R @ T_j$                                                        |         | F                                                             | $I_F$ | $T_{rr}$                                    |
|          | $V_{PK}$                                     | A                                                       | C | A                                                                                                      | @ 25°C                                                             | @ 125°C |                                                               |       |                                             |
|          |                                              |                                                         |   |                                                                                                        | $\mu A$                                                            | mA      | V                                                             | A     | ns                                          |

**200AMP / Fast Recovery /TO-244AB (Isolated)**  $T_j$  of -40°C to +150,  $T_{stg}$  of -40°C to +150°C,  $I_{FSM}$  for 25°C

|             |     |     |     |      |   |   |     |     |    |
|-------------|-----|-----|-----|------|---|---|-----|-----|----|
| DCMDU200A04 | 400 | 200 | 120 | 1000 | 5 | 3 | 1.4 | 100 | 60 |
| DCMDU200A06 | 600 | 200 | 120 | 1000 | 5 | 3 | 1.4 | 100 | 60 |

**280AMP / Fast Recovery /TO-244AB (Isolated)**  $T_j$  of -40°C to +150°C  $T_{stg}$  of -40°C to +150°C  $I_{FSM}$  for 25°C

|             |     |     |     |      |   |   |     |     |    |
|-------------|-----|-----|-----|------|---|---|-----|-----|----|
| DCMDU280A04 | 400 | 280 | 120 | 1500 | 5 | 3 | 1.4 | 140 | 60 |
| DCMDU280A06 | 600 | 280 | 120 | 1500 | 5 | 3 | 1.4 | 140 | 60 |

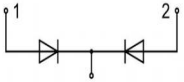
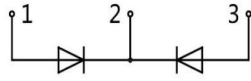
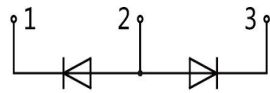
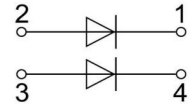
**320AMP / Fast Recovery /TO-244AB (Isolated)**  $T_j$  of -40°C to +150°C  $T_{stg}$  of -40°C to +150°C  $I_{FSM}$  for 25°C

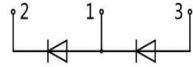
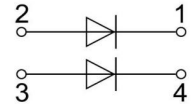
|             |     |     |     |      |   |   |     |     |    |
|-------------|-----|-----|-----|------|---|---|-----|-----|----|
| DCMDU320A04 | 400 | 200 | 120 | 1750 | 5 | 3 | 1.4 | 160 | 60 |
| DCMDU320A06 | 600 | 200 | 120 | 1750 | 5 | 3 | 1.4 | 160 | 60 |



<https://www.yzpst.com/diode-module/56264347.html>

## Fast Recovery Diode (FRD) Module

| Type                 | $V_{RRM}$<br>V | $I_{F(AV)}$<br>d=0.5 | $V_F$<br>V | $t_r$      | Package | Circuit                                                                                                    |
|----------------------|----------------|----------------------|------------|------------|---------|------------------------------------------------------------------------------------------------------------|
|                      |                | A                    |            | typ.<br>ns |         |                                                                                                            |
| YZPST-F- 200DK40-F1  | 400            | 2×100                | 1.2        | 75         | F1      | <br>DK ( Non-insulation ) |
| YZPST-F- 200DK60-F1  | 600            | 2×100                | 1.25       | 105        | F1      |                                                                                                            |
| YZPST-F- 300DK40-F2  | 400            | 2×150                | 1.15       | 95         | F2      |                                                                                                            |
| YZPST-F- 300DK60-F2  | 600            | 2×150                | 1.3        | 150        | F2      |                                                                                                            |
| YZPST-F- 400DK40-F2  | 400            | 2×200                | 1.2        | 125        | F2      |                                                                                                            |
| YZPST-F- 400DK60-F2  | 600            | 2×200                | 1.35       | 135        | F2      |                                                                                                            |
| YZPST-F- 300DK60-F3  | 600            | 2×150                | 1.15       | 130        | F3      | <br>DK                    |
| YZPST-F- 200DK70-F3  | 700            | 2×100                | 1.55       | 90         | F3      |                                                                                                            |
| YZPST-F- 200DK120-F3 | 1200           | 2×100                | 1.77       | 150        | F3      |                                                                                                            |
| YZPST-F- 300DK120-F3 | 1200           | 2×150                | 1.85       | 240        | F3      |                                                                                                            |
| YZPST-F- 150DK60-G1  | 600            | 2×150                | 1.2        | 130        | G1      |                                                                                                            |
| YZPST-F- 200DK60-G1  | 600            | 2×200                | 1.2        | 140        | G1      |                                                                                                            |
| YZPST-F- 300DK60-G1  | 600            | 2×300                | 1.2        | 150        | G1      | <br>DA                    |
| YZPST-F- 150DK120-G1 | 1200           | 2×150                | 1.6        | 140        | G1      |                                                                                                            |
| YZPST-F- 200DK120-G1 | 1200           | 2×200                | 2.3        | 115        | G1      |                                                                                                            |
| YZPST-F- 300DK120-G1 | 1200           | 2×300                | 2.8        | 135        | G1      |                                                                                                            |
| YZPST-F- 100DK170-G1 | 1700           | 2×100                | 2.1        | 500        | G1      |                                                                                                            |
| YZPST-F- 200DK170-G1 | 1700           | 2×200                | 2.1        | 750        | G1      |                                                                                                            |
| YZPST-F- 300DA60-F3  | 600            | 2×150                | 1.15       | 130        | F3      | <br>SG                  |
| YZPST-F- 200DA70-F3  | 700            | 2×100                | 1.55       | 90         | F3      |                                                                                                            |
| YZPST-F- 200DA120-F3 | 1200           | 2×100                | 1.77       | 150        | F3      |                                                                                                            |
| YZPST-F- 300DA120-F3 | 1200           | 2×150                | 1.85       | 240        | F3      |                                                                                                            |
| YZPST-F- 150DA60-G1  | 600            | 2×150                | 1.2        | 130        | G1      |                                                                                                            |
| YZPST-F- 200DA60-G1  | 600            | 2×200                | 1.2        | 140        | G1      |                                                                                                            |
| YZPST-F- 300DA60-G1  | 600            | 2×300                | 1.2        | 150        | G1      | <br>DD                  |
| YZPST-F- 150DA120-G1 | 1200           | 2×150                | 1.6        | 140        | G1      |                                                                                                            |
| YZPST-F- 200DA120-G1 | 1200           | 2×200                | 2.3        | 115        | G1      |                                                                                                            |
| YZPST-F- 300DA120-G1 | 1200           | 2×300                | 2.8        | 135        | G1      |                                                                                                            |
| YZPST-F- 100DA170-G1 | 1700           | 2×100                | 2.1        | 500        | G1      |                                                                                                            |
| YZPST-F- 200DA170-G1 | 1700           | 2×200                | 2.1        | 750        | G1      |                                                                                                            |

| Type                   | $V_{RRM}$<br>V | $I_{F(AV)}$<br>d=0.5 | $V_F$<br>V | $t_r$      | Package | Circuit                                                                                   |
|------------------------|----------------|----------------------|------------|------------|---------|-------------------------------------------------------------------------------------------|
|                        |                | A                    |            | typ.<br>ns |         |                                                                                           |
| YZPST-F- 150DC60-G1    | 600            | 2×150                | 1.2        | 130        | G1      | <br>DC |
| YZPST-F- 200DC60-G1    | 600            | 2×200                | 1.2        | 140        | G1      |                                                                                           |
| YZPST-F- 300DC60-G1    | 600            | 2×300                | 1.2        | 150        | G1      |                                                                                           |
| YZPST-F- 150DC120-G1   | 1200           | 2×150                | 1.6        | 140        | G1      |                                                                                           |
| YZPST-F- 200DC120-G1   | 1200           | 2×200                | 2.3        | 115        | G1      |                                                                                           |
| YZPST-F- 300DC120-G1   | 1200           | 2×300                | 2.8        | 135        | G1      |                                                                                           |
| YZPST-F- 100DC170-G1   | 1700           | 2×100                | 2.1        | 500        | G1      | <br>SG |
| YZPST-F- 200DC170-G1   | 1700           | 2×200                | 2.1        | 750        | G1      |                                                                                           |
| YZPST-F- 300DC170-G2   | 1700           | 2×300                | 2.1        | 500        | F2      |                                                                                           |
| YZPST-F- 300SG60-G1    | 600            | 300                  | 1.35       | 130        | G1      |                                                                                           |
| YZPST-F- 600SG60-G1    | 600            | 600                  | 1.2        | 180        | G1      |                                                                                           |
| YZPST-F- 300SG120-G1   | 1200           | 300                  | 2.8        | 155        | G1      |                                                                                           |
| YZPST-F- 400SG120-G1   | 1200           | 400                  | 3          | 183        | G1      | <br>DD |
| YZPST-F- 300SG120-G1   | 1200           | 600                  | 2.8        | 205        | G1      |                                                                                           |
| YZPST-F- 400SG170-G2   | 1700           | 400                  | 2.4        | 855        | G1      |                                                                                           |
| YZPST-F- 2×75DD60-F4   | 600            | 2×75                 | 1.2        | 80         | F4      |                                                                                           |
| YZPST-F- 2×100DD60-F4  | 600            | 2×100                | 1.2        | 115        | F4      |                                                                                           |
| YZPST-F- 2×70DD120-F4  | 120            | 2×70                 | 2          | 90         | F4      |                                                                                           |
| YZPST-F- 2×100DD120-F4 | 120            | 2×100                | 2.1        | 135        | F4      |                                                                                           |

## Fast Recovery Diode (FRD) Module

| Package Type                                                                                                 | VRRM ( V ) |     |      |      | IF ( A ) |     |     |     |     |     |
|--------------------------------------------------------------------------------------------------------------|------------|-----|------|------|----------|-----|-----|-----|-----|-----|
|                                                                                                              | 400        | 600 | 1200 | 1700 | 100      | 200 | 300 | 300 | 400 | 600 |
| <br>F1: DK (Non-insulation) |            |     |      |      |          |     |     |     |     |     |
| <br>F2: DK (Non-insulation) |            |     |      |      |          |     |     |     |     |     |
| <br>F3: DK / DA             |            |     |      |      |          |     |     |     |     |     |
| <br>F4: single              |            |     |      |      |          |     |     |     |     |     |
| <br>G1: half bridge/chopper |            |     |      |      |          |     |     |     |     |     |
| <br>G2: half bridge/chopper |            |     |      |      |          |     |     |     |     |     |

# Power Modules

## Schottky Diode module

YZPST

YANGZHOU POSITIONING TECH. CO., LTD

| Part Number | Package  | VRRM   | Io  | IFSM |
|-------------|----------|--------|-----|------|
|             |          | V      | A   | A    |
| ECKES120    | D-67     | 40-120 | 120 | 1500 |
| ECKES180    | D-67     | 40-120 | 180 | 2200 |
| ECKES240    | D-67     | 40-120 | 240 | 3000 |
| BCK3S120    | SOT227   | 40-120 | 60  | 900  |
| BCK3S240    | SOT227   | 40-120 | 120 | 1800 |
| BCK2S120    | SOT227   | 40-120 | 60  | 900  |
| BCK2S240    | SOT227   | 40-120 | 120 | 1500 |
| CCMSD200    | TO-244AB | 40-120 | 200 | 1500 |
| DCMSD200    | TO-244AB | 40-120 | 200 | 1500 |
| CCMSD300    | TO-244AB | 40-120 | 300 | 2000 |
| DCMSD300    | TO-244AB | 40-120 | 300 | 2000 |
| DCMSD400    | TO-244AB | 40-120 | 400 | 2500 |
| CCMSD400    | TO-244AB | 40-120 | 400 | 2500 |

| Part No. | Maximum Recurrent Peak Reverse Voltage | Maximum Average Forward Rectified Current at Per Pak |   | Peak forward Surge Current 8.3 ms Single Half Sine-Wave Superimposed On Rated Load at Per leg | Maximum DC Instantaneous Reverse Current at Per leg @ VRRM |         | Maximum Instantaneous Forward Voltage at Per leg @ 25°C |    |
|----------|----------------------------------------|------------------------------------------------------|---|-----------------------------------------------------------------------------------------------|------------------------------------------------------------|---------|---------------------------------------------------------|----|
|          | VRRM                                   | Io@ Tc                                               |   | IFSM                                                                                          | Ir@ Tj                                                     |         | F                                                       | IF |
|          |                                        |                                                      |   |                                                                                               | @ 25°C                                                     | @ 125°C |                                                         |    |
|          | VPK                                    | A                                                    | C | A                                                                                             | μ A                                                        | mA      | V                                                       | A  |

**120AMP / SCHOTTKY RECTIFIER / D-67(HALF PAK)** Tj and Tstg of -40°C to +150°C, IFSM for 25°C

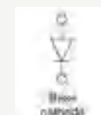
|             |     |     |     |      |   |    |      |     |
|-------------|-----|-----|-----|------|---|----|------|-----|
| ECKES120040 | 40  | 120 | 110 | 1500 | 1 | 20 | 0.75 | 120 |
| ECKES120060 | 60  | 120 | 110 | 1500 | 1 | 20 | 0.75 | 120 |
| ECKES120100 | 100 | 120 | 110 | 1500 | 1 | 20 | 0.75 | 120 |
| ECKES120120 | 120 | 120 | 110 | 1500 | 1 | 20 | 0.75 | 120 |

**180AMP / SCHOTTKY RECTIFIER / D-67(HALF PAK)** Tj and Tstg of -40°C to +150°C, IFSM for 25°C

|             |     |     |     |      |   |    |      |     |
|-------------|-----|-----|-----|------|---|----|------|-----|
| ECKES180040 | 40  | 180 | 110 | 2200 | 1 | 20 | 0.75 | 180 |
| ECKES180060 | 60  | 180 | 110 | 2200 | 1 | 20 | 0.75 | 180 |
| ECKES180100 | 100 | 180 | 110 | 2200 | 1 | 20 | 0.75 | 180 |
| ECKES180120 | 120 | 180 | 110 | 2200 | 1 | 20 | 0.75 | 180 |

**240AMP / SCHOTTKY RECTIFIER / D-67(HALF PAK)** Tj and Tstg of -40°C to +150°C, IFSM for 25°C

|             |     |     |     |      |   |    |      |     |
|-------------|-----|-----|-----|------|---|----|------|-----|
| ECKES120040 | 40  | 240 | 110 | 3000 | 1 | 20 | 0.75 | 240 |
| ECKES120060 | 60  | 240 | 110 | 3000 | 1 | 20 | 0.75 | 240 |
| ECKES120100 | 100 | 240 | 110 | 3000 | 1 | 20 | 0.75 | 240 |
| ECKES120120 | 120 | 240 | 110 | 3000 | 1 | 20 | 0.75 | 240 |



<https://www.yzpst.net/yzpst-400dk100-15928077898749692.html>

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# Power Modules



YANGZHOU POSITIONING TECH. CO., LTD

## Schottky Diode module

| Part No. | Maximum Recurrent<br>Peak Reverse Voltage | Maximum Average Forward Rectified<br>Current at Per Pak |   | Peak forward Surge Current 8 . 3 ms<br>Single Half Sine-Wave<br>Superimposed On Rated Load at<br>Per leg | Maximum DC Instantaneous Reverse<br>Current at Per leg @ $V_{RRM}$ |         | Maximum Instantaneous Forward<br>Voltage at Per leg<br>@ 25 C |       |
|----------|-------------------------------------------|---------------------------------------------------------|---|----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|---------|---------------------------------------------------------------|-------|
|          | $V_{RRM}$                                 | $I_o @ T_c$                                             |   | $I_{FSM}$                                                                                                | $I_R @ T_j$                                                        |         | F                                                             | $I_F$ |
|          | $V_{PK}$                                  | A                                                       | C | A                                                                                                        | @ 25 C                                                             | @ 125 C |                                                               |       |
|          |                                           |                                                         |   |                                                                                                          | $\mu A$                                                            | mA      | V                                                             | A     |

**120AMP / SCHOTTKY RECTIFIER /SOT-227**  $T_j$  and  $T_{stg}$  of  $-40^{\circ}C$  to  $+150^{\circ}C$ ,  $I_{FSM}$  for 25 C

|             |     |    |     |     |   |    |      |    |
|-------------|-----|----|-----|-----|---|----|------|----|
| BCK3S120040 | 40  | 60 | 110 | 900 | 1 | 20 | 0.75 | 60 |
| BCK3S120060 | 60  | 60 | 110 | 900 | 1 | 20 | 0.75 | 60 |
| BCK3S120100 | 100 | 60 | 110 | 900 | 1 | 20 | 0.75 | 60 |
| BCK3S120120 | 120 | 60 | 110 | 900 | 1 | 20 | 0.75 | 60 |

**240AMP / SCHOTTKY RECTIFIER /SOT-227**  $T_j$  and  $T_{stg}$  of  $-40^{\circ}C$  to  $+150^{\circ}C$ ,  $I_{FSM}$  for 25 C

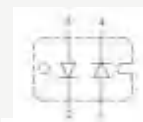
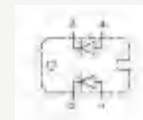
|             |     |     |     |      |   |    |      |     |
|-------------|-----|-----|-----|------|---|----|------|-----|
| BCK3S240040 | 40  | 120 | 110 | 1500 | 1 | 20 | 0.75 | 120 |
| BCK3S240060 | 60  | 120 | 110 | 1500 | 1 | 20 | 0.75 | 120 |
| BCK3S240100 | 100 | 120 | 110 | 1500 | 1 | 20 | 0.75 | 120 |
| BCK3S240120 | 120 | 120 | 110 | 1500 | 1 | 20 | 0.75 | 120 |

**120AMP / SCHOTTKY RECTIFIER /SOT-227**  $T_j$  and  $T_{stg}$  of  $-40^{\circ}C$  to  $+150^{\circ}C$ ,  $I_{FSM}$  for 25 C

|             |     |    |     |     |   |    |      |    |
|-------------|-----|----|-----|-----|---|----|------|----|
| BCK2S120040 | 40  | 60 | 110 | 900 | 1 | 20 | 0.75 | 60 |
| BCK2S120060 | 60  | 60 | 110 | 900 | 1 | 20 | 0.75 | 60 |
| BCK2S120100 | 100 | 60 | 110 | 900 | 1 | 20 | 0.75 | 60 |
| BCK2S120120 | 120 | 60 | 110 | 900 | 1 | 20 | 0.75 | 60 |

**240AMP / SCHOTTKY RECTIFIER /SOT-227**  $T_j$  and  $T_{stg}$  of  $-40^{\circ}C$  to  $+150^{\circ}C$ ,  $I_{FSM}$  for 25 C

|             |     |     |     |      |   |    |      |     |
|-------------|-----|-----|-----|------|---|----|------|-----|
| BCK2S240040 | 40  | 120 | 110 | 1500 | 1 | 20 | 0.75 | 120 |
| BCK2S240060 | 60  | 120 | 110 | 1500 | 1 | 20 | 0.75 | 120 |
| BCK2S240100 | 100 | 120 | 110 | 1500 | 1 | 20 | 0.75 | 120 |
| BCK2S240120 | 120 | 120 | 110 | 1500 | 1 | 20 | 0.75 | 120 |



# Power Modules



YANGZHOU POSITIONING TECH. CO., LTD

## Schottky Diode module

| Part No. | Maximum Recurrent<br>Peak Reverse Voltage | Maximum Average Forward Rectified<br>Current at Per Pak |   | Peak forward Surge Current 8.3 ms<br>Single Half Sine-Wave<br>Superimposed On Rated Load at<br>Per leg | Maximum DC Instantaneous Reverse<br>Current at Per leg @ $V_{RRM}$ |               | Maximum Instantaneous Forward<br>Voltage at Per leg<br>@ 25°C |       |
|----------|-------------------------------------------|---------------------------------------------------------|---|--------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|---------------|---------------------------------------------------------------|-------|
|          | $V_{RRM}$                                 | $I_o$ @ $T_c$                                           |   | $I_{FSM}$                                                                                              | $I_R$ @ $T_j$                                                      |               | F                                                             | $I_F$ |
|          | $V_{PK}$                                  | A                                                       | C | A                                                                                                      | @ 25°C<br>$\mu A$                                                  | @ 125°C<br>mA |                                                               |       |

**200AMP / UltraFast Recovery /TO-244AB (Non -Isolated )**  $T_j$  of -55°C to +150°C,  $T_{stg}$  of -55°C to +150°C,  $I_{FSM}$  for 25°C

|             |     |     |     |      |   |    |      |     |
|-------------|-----|-----|-----|------|---|----|------|-----|
| CCMDS200040 | 40  | 200 | 110 | 1500 | 1 | 20 | 0.75 | 100 |
| CCMDS200060 | 60  | 200 | 110 | 1500 | 1 | 20 | 0.75 | 100 |
| CCMDS200100 | 100 | 200 | 110 | 1500 | 1 | 20 | 0.75 | 100 |
| CCMDS200120 | 120 | 200 | 110 | 1500 | 1 | 20 | 0.75 | 100 |

**300AMP / UltraFast Recovery /TO-244AB (Non -Isolated )**  $T_j$  of -55°C to +150°C,  $T_{stg}$  of -55°C to +150°C,  $I_{FSM}$  for 25°C

|             |     |     |     |      |   |    |      |     |
|-------------|-----|-----|-----|------|---|----|------|-----|
| CCMDS300040 | 40  | 300 | 110 | 2000 | 1 | 20 | 0.75 | 150 |
| CCMDS300060 | 60  | 300 | 110 | 2000 | 1 | 20 | 0.75 | 150 |
| CCMDS300100 | 100 | 300 | 110 | 2000 | 1 | 20 | 0.75 | 150 |
| CCMDS300120 | 120 | 300 | 110 | 2000 | 1 | 20 | 0.75 | 150 |

**400AMP / UltraFast Recovery /TO-244AB (Non -Isolated )**  $T_j$  of -55°C to +150°C,  $T_{stg}$  of -55°C to +150°C,  $I_{FSM}$  for 25°C

|             |     |     |     |      |   |    |      |     |
|-------------|-----|-----|-----|------|---|----|------|-----|
| CCMDS400040 | 40  | 400 | 110 | 2500 | 1 | 20 | 0.75 | 200 |
| CCMDS400060 | 60  | 400 | 110 | 2500 | 1 | 20 | 0.75 | 200 |
| CCMDS400100 | 100 | 400 | 110 | 2500 | 1 | 20 | 0.75 | 200 |
| CCMDS400120 | 120 | 400 | 110 | 2500 | 1 | 20 | 0.75 | 200 |

**200AMP / UltraFast Recovery /TO-244AB (Isolated )**  $T_j$  of -55°C to +150°C,  $T_{stg}$  of -55°C to +150°C,  $I_{FSM}$  for 25°C

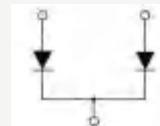
|             |     |     |     |      |   |    |      |     |
|-------------|-----|-----|-----|------|---|----|------|-----|
| DCMDS200040 | 40  | 200 | 110 | 1500 | 1 | 20 | 0.75 | 100 |
| DCMDS200060 | 60  | 200 | 110 | 1500 | 1 | 20 | 0.75 | 100 |
| DCMDS200100 | 100 | 200 | 110 | 1500 | 1 | 20 | 0.75 | 100 |
| DCMDS200120 | 120 | 200 | 110 | 1500 | 1 | 20 | 0.75 | 100 |

**300AMP / UltraFast Recovery /TO-244AB (Isolated )**  $T_j$  of -55°C to +150°C,  $T_{stg}$  of -55°C to +150°C,  $I_{FSM}$  for 25°C

|             |     |     |     |      |   |    |      |     |
|-------------|-----|-----|-----|------|---|----|------|-----|
| DCMDS300040 | 40  | 300 | 110 | 2000 | 1 | 20 | 0.75 | 150 |
| DCMDS300060 | 60  | 300 | 110 | 2000 | 1 | 20 | 0.75 | 150 |
| DCMDS300100 | 100 | 300 | 110 | 2000 | 1 | 20 | 0.75 | 150 |
| DCMDS300120 | 120 | 300 | 110 | 2000 | 1 | 20 | 0.75 | 150 |

**400AMP / UltraFast Recovery /TO-244AB (Isolated )**  $T_j$  of -55°C to +150°C,  $T_{stg}$  of -55°C to +150°C,  $I_{FSM}$  for 25°C

|             |     |     |     |      |   |    |      |     |
|-------------|-----|-----|-----|------|---|----|------|-----|
| DCMDS400040 | 40  | 400 | 110 | 2500 | 1 | 20 | 0.75 | 200 |
| DCMDS400060 | 60  | 400 | 110 | 2500 | 1 | 20 | 0.75 | 200 |
| DCMDS400100 | 100 | 400 | 110 | 2500 | 1 | 20 | 0.75 | 200 |
| DCMDS400120 | 120 | 400 | 110 | 2500 | 1 | 20 | 0.75 | 200 |

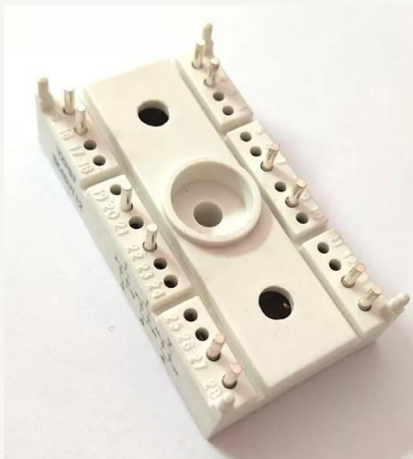


# Power Modules

## Half Control Bridge Rectifier modules

YZPST

YANGZHOU POSITIONING TECH. CO., LTD



<https://www.yzpst.net/half-controlled-bridge-rectifier-module-15893422083866302.html>

### Features:

- Compact design
- One screw mounting
- Heat transfer and insulation through direct copper bonded aluminum oxide ceramic (DBC)
- Glass passivated thyristor chips
- Up to 1600V reverse voltage

### Typical Applications:

- Soft starters
- Light control
- Temperature control
- Motor control

# Power Modules



YANGZHOU POSITIONING TECH. CO., LTD

## Single/Double Thyristor & FRED Modules in SOT – 227 Package



<https://www.yzpst.net/yzpst-mco150-16i01-16481048144650521.html>

**Thyristor Thyristor module**



<https://www.yzpst.net/yzpst-sp50n80fx-16554576791124354.html>

**MOSFET module**

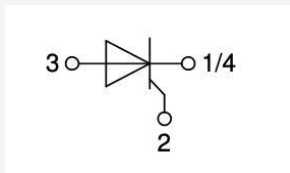


<https://www.yzpst.net/schottky-module-15893485093189830.html>

**Schottky module**

## Single/Double Thyristor & FRED Modules in SOT – 227 Package

### Single Thyristor Module

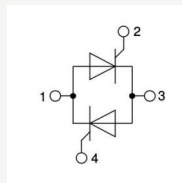


$V_{RRM} = 1600V$

$I_{TAV} = 101A$

$V_T = 1,3V$

### Double Thyristor Module

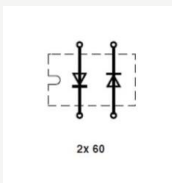


$V_{RRM} = 1600V$

$I_{TAV} = 50A$

$V_T = 1,2V$

### FRED Module



$I_{FAVM} = 2x60A$

$V_{RRM} = 1200V$

$t_{rr} = 46 \text{ ns}$

### Features

- International standard package miniBLOC (ISOTOP compatible)
- Isolation voltage 2500 V~
- 2 independent FRED in 1 package
- Planar passivated chips
- Very short recovery time
- Extremely low switching losses
- Low I-values RM
- Soft recovery behaviour

### Features / Advantages:

- Thyristor for line frequency
- Planar passivated chip
- Long-term stability

### Applications:

- Line rectifying 50/60 Hz
- Softstart AC motor control
- DC Motor control
- Power converter
- AC power control
- Lighting and temperature control
- Advanced power cycling

### Package: SOT-227B (minibloc)

- Isolation Voltage: 3000 V~
- Industry standard outline
- RoHS compliant
- Epoxy meets UL 94V-0
- Base plate: Copper
- internally DCB isolated

### Applications

- Antiparallel diode for high frequency switching devices
- Anti saturation diode
- Snubber diode
- Free wheeling diode in converters and motor control circuits
- Rectifiers in switch mode power supplies (SMPS)
- Inductive heating and melting
- Uninterruptible power supplies (UPS)
- Ultrasonic cleaners and welders

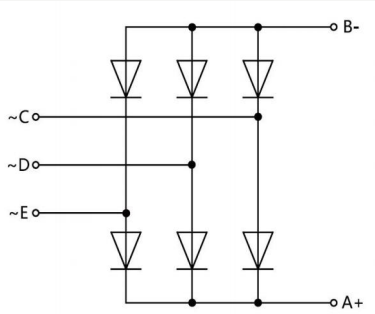
### Advantages

- High reliability circuit operation
- Low voltage peaks for reduced protection circuits
- Low noise switching
- Low losses
- Operating at lower temperature or space saving by reduced cooling

## Bridge Rectifier module

| Package Type                                                                                      | VRRM ( V ) |      |      |      | ID ( A ) |    |     |     |     |     |     |
|---------------------------------------------------------------------------------------------------|------------|------|------|------|----------|----|-----|-----|-----|-----|-----|
|                                                                                                   | 1200       | 1600 | 1800 | 2000 | 50       | 80 | 100 | 150 | 200 | 250 | 300 |
| <br>Q1: DS / Q   |            |      |      |      |          |    |     |     |     |     |     |
| <br>Q2: DS / DQ  |            |      |      |      |          |    |     |     |     |     |     |
| <br>Q3: DS / Q   |            |      |      |      |          |    |     |     |     |     |     |
| <br>Q4: DS / Q   |            |      |      |      |          |    |     |     |     |     |     |
| <br>Q5: DS / DQ  |            |      |      |      |          |    |     |     |     |     |     |
| <br>Q6: DS / DQ |            |      |      |      |          |    |     |     |     |     |     |

## Bridge Rectifier module

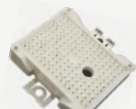
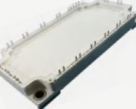
| Type                   | VRRM      | ID  | IFSM | VF   | RthJC | Packages | Circuit                                                                             |
|------------------------|-----------|-----|------|------|-------|----------|-------------------------------------------------------------------------------------|
|                        | (V)       | (A) | (A)  | (V)  | (K/W) |          |                                                                                     |
| YZPST-RBM- 50DS180-Q1  | 1200-1800 | 50  | 500  | 1.4  | 0.2   | Q1       |  |
| YZPST-RBM- 50DS180-Q2  | 1200-1800 | 50  | 500  | 1.35 | 0.2   | Q2       |                                                                                     |
| YZPST-RBM- 80DS180-Q2  | 1200-1800 | 80  | 800  | 1.35 | 0.18  | Q2       |                                                                                     |
| YZPST-RBM- 100DS180-Q2 | 1200-1800 | 100 | 1000 | 1.35 | 0.15  | Q2       |                                                                                     |
| YZPST-RBM- 150DS180-Q3 | 1200-1800 | 150 | 1500 | 1.45 | 0.11  | Q3       |                                                                                     |
| YZPST-RBM- 200DS180-Q3 | 1200-1800 | 200 | 2000 | 1.45 | 0.09  | Q3       |                                                                                     |
| YZPST-RBM- 250DS180-Q3 | 1200-1800 | 250 | 2500 | 1.55 | 0.08  | Q3       |                                                                                     |
| YZPST-RBM- 50DS180-Q4  | 1200-1800 | 50  | 500  | 1.35 | 0.2   | Q4       |                                                                                     |
| YZPST-RBM- 80DS180-Q4  | 1200-1800 | 80  | 800  | 1.35 | 0.18  | Q4       |                                                                                     |
| YZPST-RBM- 100DS180-Q4 | 1200-1800 | 100 | 1000 | 1.35 | 0.15  | Q4       |                                                                                     |
| YZPST-RBM- 150DS180-Q5 | 1200-1800 | 150 | 1500 | 1.56 | 0.1   | Q5       |                                                                                     |
| YZPST-RBM- 200DS180-Q5 | 1200-1800 | 200 | 2000 | 1.45 | 0.09  | Q5       |                                                                                     |
| YZPST-RBM- 250DS180-Q5 | 1200-1800 | 250 | 2500 | 1.55 | 0.08  | Q5       |                                                                                     |
| YZPST-RBM- 80DS180-Q6  | 1200-1800 | 80  | 800  | 2.25 | 0.18  | Q6       |                                                                                     |
| YZPST-RBM- 100DS180-Q6 | 1200-1800 | 100 | 1000 | 1.35 | 0.15  | Q6       |                                                                                     |
| YZPST-RBM- 70DS200-Q2  | 2000      | 70  | 700  | 1.35 | 0.18  | Q2       |                                                                                     |
| YZPST-RBM- 100DS200-Q2 | 2000      | 100 | 1000 | 1.35 | 0.15  | Q2       |                                                                                     |
| YZPST-RBM- 100DS200-Q3 | 2000      | 100 | 1000 | 1.35 | 0.15  | Q3       |                                                                                     |
| YZPST-RBM- 150DS200-Q3 | 2000      | 150 | 1500 | 1.45 | 0.11  | Q3       |                                                                                     |
| YZPST-RBM- 200DS200-Q3 | 2000      | 200 | 2000 | 1.45 | 0.09  | Q3       |                                                                                     |

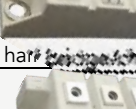
# Power Modules

## IGBT module

YZPST

YANGZHOU POSITIONING TECH. CO., LTD

| Package Type                                                                                                              | VCES (V) |      |      | IC(A) |    |    |    |     |     |     |  |
|---------------------------------------------------------------------------------------------------------------------------|----------|------|------|-------|----|----|----|-----|-----|-----|--|
|                                                                                                                           | 650      | 1200 | 1700 | 15    | 25 | 50 | 75 | 100 | 150 | 200 |  |
| <br>E1: fullbridge/3phasebridge/PIM/NPC  |          |      |      |       |    |    |    |     |     |     |  |
| <br>E2: 3phasebridge/PIM/NPC             |          |      |      |       |    |    |    |     |     |     |  |
| <br>G4: fullbridge/3phasebridge/PIM      |          |      |      |       |    |    |    |     |     |     |  |
| <br>G5: fullbridge/3phasebridge/PIM      |          |      |      |       |    |    |    |     |     |     |  |
| <br>G6: fullbridge/Hbridge/3phasebridge |          |      |      |       |    |    |    |     |     |     |  |

| Package Type                                                                                                            | VCES (V) |      |      | IC (A) |     |     |     |     |     |     |  |
|-------------------------------------------------------------------------------------------------------------------------|----------|------|------|--------|-----|-----|-----|-----|-----|-----|--|
|                                                                                                                         | 650      | 1200 | 1700 | 50     | 100 | 200 | 300 | 400 | 600 | 900 |  |
| <br>M1: half bridge/3phase copper     |          |      |      |        |     |     |     |     |     |     |  |
| <br>G1: half bridge/chopper           |          |      |      |        |     |     |     |     |     |     |  |
| <br>G2: half bridge/chopper           |          |      |      |        |     |     |     |     |     |     |  |
| <br>G7: NPC double copper             |          |      |      |        |     |     |     |     |     |     |  |
| <br>G8: half bridge double copper     |          |      |      |        |     |     |     |     |     |     |  |
| <br>A1: 3 phase bridge double copper |          |      |      |        |     |     |     |     |     |     |  |

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# Power Modules

YZPST

YANGZHOU POSITIONING TECH. CO., LTD

## IGBT module

| 产品型号<br>Part Number                | 电压等级<br>BV | 额定电流Ic<br>@100℃ | 封装形式<br>Package | 应用领域<br>Application             | 对标英飞凌产品型号<br>Comparable Infineon part number |
|------------------------------------|------------|-----------------|-----------------|---------------------------------|----------------------------------------------|
| YZPST-100R120                      | 1200V      | 100A            | Half-Bridge     | Industrial frequency conversion | n/a                                          |
| YZPST-600R120EW1                   | 1200V      | 600A            | EconoDual       | New energy vehicle              | 2MBI600VN-120-50 (Fuji)                      |
| YZPST-400B07AJIZ<br>YZPST-400R07E1 | 650V       | 400A            | Half-Bridge     | New energy vehicle              | FF400R07KE4                                  |
| YZPST-800R07E1                     | 650V       | 800A            | HP2             | New energy vehicle              | FS800R07A2E3                                 |



<https://www.yzpst.net/yzpst-sp50n80fx-16554576791124354.html>



<https://www.yzpst.net/fast-switching-300a-1200v-igbt-module-16512231388948256.html>



<https://www.yzpst.net/yzpst-75hf120tk-g1-16519112496113410.html>

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## IGBT module

| Part No.           | VCE   | IC(@80℃) | VTH  | IF(@80P ) | Package |
|--------------------|-------|----------|------|-----------|---------|
| YZPST-FP10N120M1   | 1200V | 10A      | 5.0V | 10A       | B3      |
| YZPST-FP15N120M1   | 1200V | 15A      | 5.0V | 15A       | B3      |
| YZPST-FP10N120MY21 | 1200V | 10A      | 5.0V | 10A       | B2      |
| YZPST-FP15N120MY21 | 1200V | 15A      | 5.0V | 15A       | B2      |
| YZPST-FP25N120MB91 | 1200V | 25A      | 5.0V | 25A       | B9      |
| YZPST-FP25N120M    | 1200V | 25A      | 5.0V | 25A       | T5      |
| YZPST-FP40N120M    | 1200V | 40A      | 5.0V | 40A       | T5      |
| YZPST-FP50N120M*   | 1200V | 50A      | 5.0V | 50A       | T8      |
| YZPST-FP75N120M*   | 1200V | 75A      | 5.0V | 75A       | T8      |
| YZPST-SP75N120M*   | 1200V | 75A      | 5.0V | 75A       | T6      |
| YZPST-SP100N120M*  | 1200V | 100A     | 5.0V | 100A      | T6      |
| YZPST-100HF120G1M1 | 1200V | 100 A    | 5.5V | 100A      | 34MM    |
| YZPST-200HF120G1M1 | 1200V | 200A     | 5.5V | 200A      | 62MM    |

# Power Modules

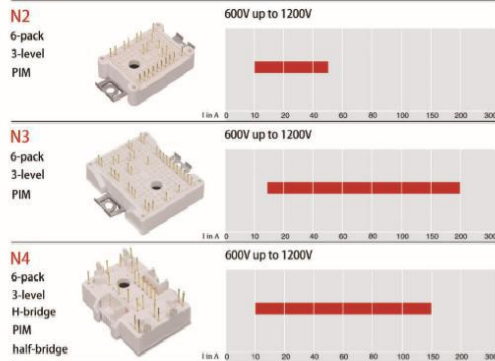
## SiC & IGBT modules

YZPST

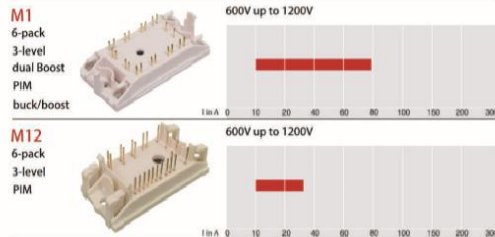
YANGZHOU POSITIONING TECH. CO., LTD

### Low Power N/M Series

#### N series

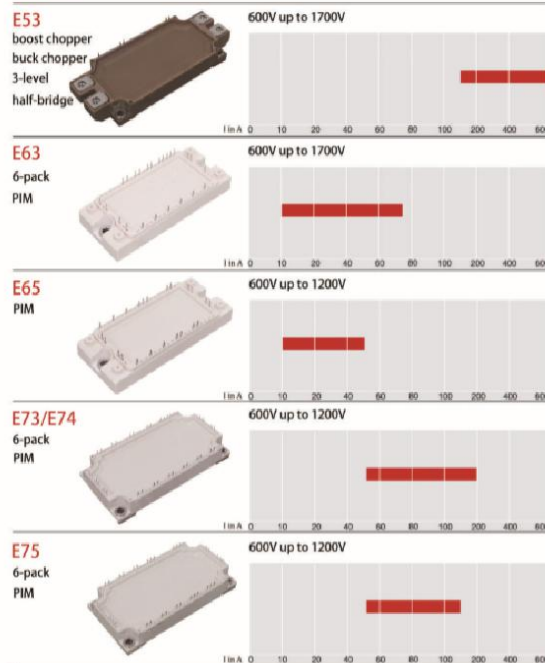


#### M series



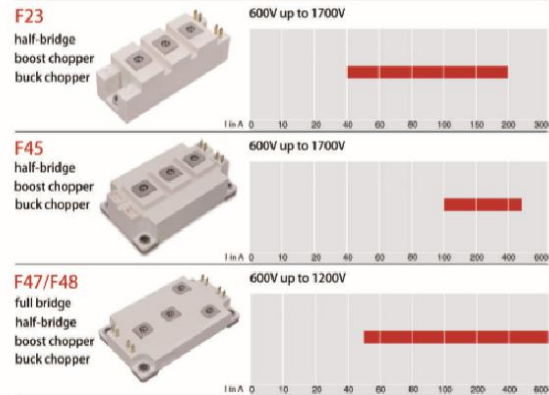
### Low & Medium Power E Series

#### E series



### Midum & High Power F Series

#### F series



F32 half-bridge



F45 Single



# Power Modules

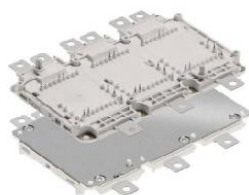
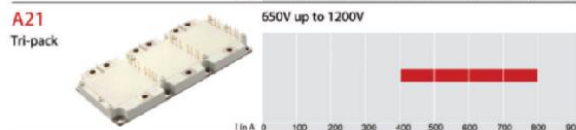
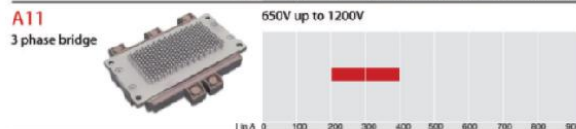
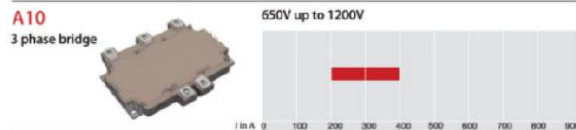
## SiC & IGBT modules

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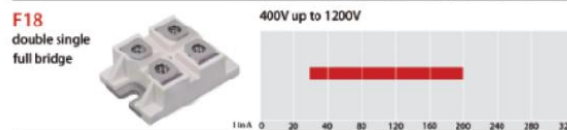
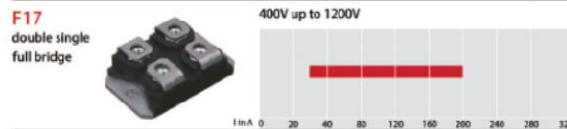
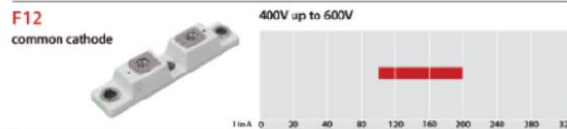
### Automotive Applications A Series

#### A series



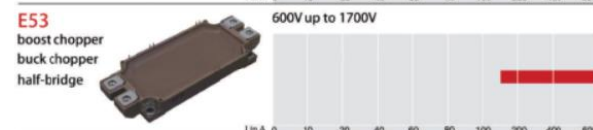
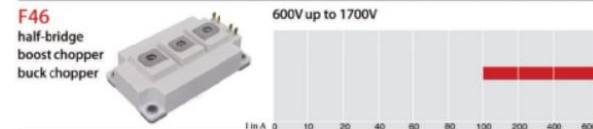
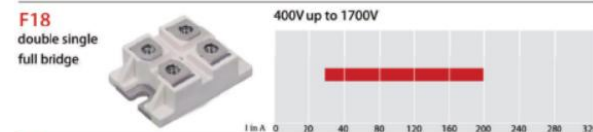
### Si Diodes Series

#### Si二极管模块

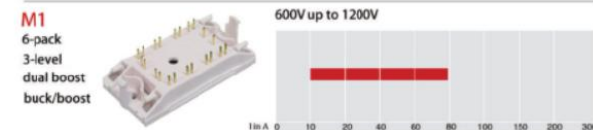


### SiC Series

#### SiC series



#### Mixed SiC series



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# Power Modules



YANGZHOU POSITIONING TECH. CO., LTD

## SiC & IGBT modules

| Product Series                         | Application                                                                                 | Package Outline                                                                    |
|----------------------------------------|---------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| <b>Low Power N/M Series</b>            | PV<br>Low power frequency converter<br>Industrial server<br>UPS                             |  |
| <b>Low &amp; Medium Power E Series</b> | PV<br>Frequency converter<br>SVG<br>Industrial server<br>electric vehicle                   |  |
| <b>Midum &amp; High Power F Series</b> | Electric welding machine<br>Frequency converter<br>Industrial server<br>SVG<br>Power Supply |  |

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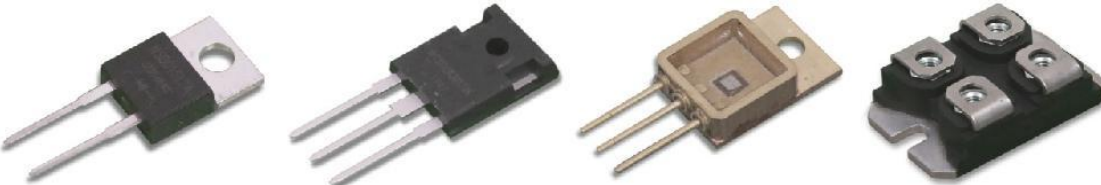
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# Power Modules



YANGZHOU POSITIONING TECH. CO., LTD

## SiC & IGBT modules

| Product Series          | Application                                           | Package Outline                                                                    |
|-------------------------|-------------------------------------------------------|------------------------------------------------------------------------------------|
| <b>A Series</b>         | Industrial server<br>electric vehicle                 |  |
| <b>SiC Series</b>       | Power Supply<br>Auxiliary power supply<br>PV inverter |  |
| <b>Si Diodes Series</b> | Electric welding machine<br>Power Supply              |  |

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# Power Modules

## SiC & IGBT modules

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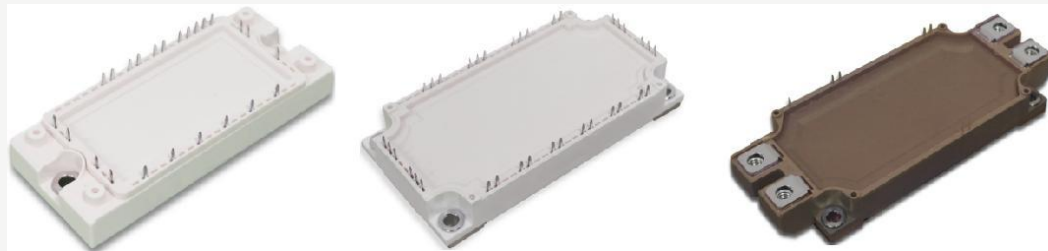
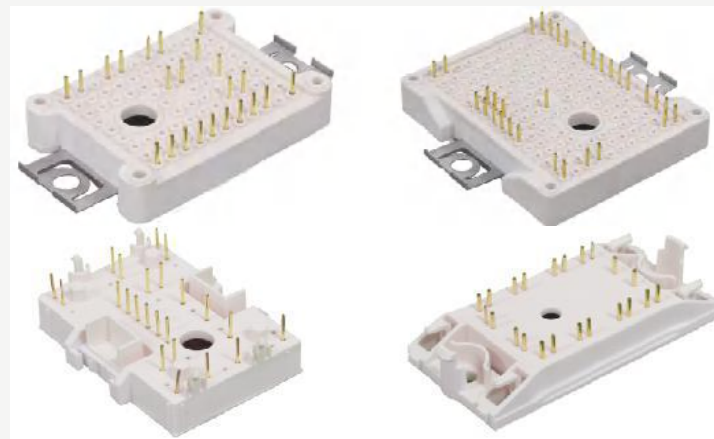
YANGZHOU POSITIONING TECH. CO., LTD

### Low Power N/M Series

Voltage level: 600V / 650V / 1200V / 1700V

Current level: 8A-200A

Application field: military servo drive / photovoltaic / industrial  
frequency conversion / industrial servo



### Medium Power E Series

Voltage level: 600V / 650V / 1200V / 1700V

Current level: 25A-600A

Application fields: power inverter / military servo drive  
/ industrial frequency conversion / photovoltaic / UPS  
/ svg

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# Power Modules

## SiC & IGBT modules

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### Medium High Power F Series

Voltage level: 600V/650V/1200V/1700V

Current level: 40A-800A

Application field: Welding machine / industrial frequency conversion / servo / photovoltaic / UPS



### High Power P Series

Voltage level: 1200V/1700V/3300V/4500V/6500V

Current level: 200A-3600A

Application fields: Electric vehicle / industrial frequency conversion / photovoltaic / svg

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# Power Modules

## SiC & IGBT modules



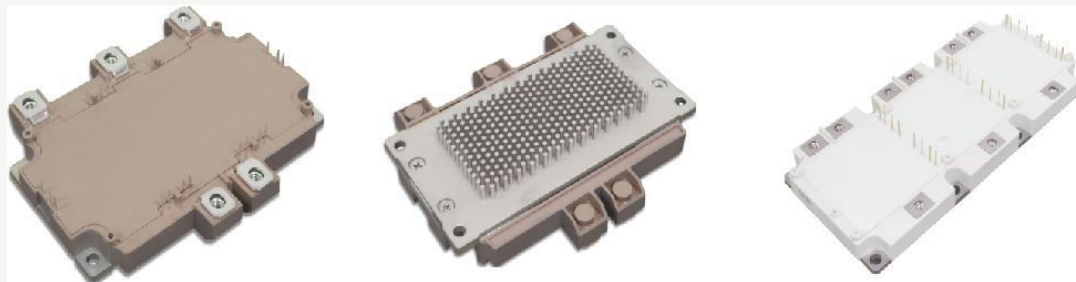
YANGZHOU POSITIONING TECH. CO., LTD

### Automotive application A series

Voltage level: 650V/750V/1200V

Current level: 200A-800A

Application field: Electric Vehicle

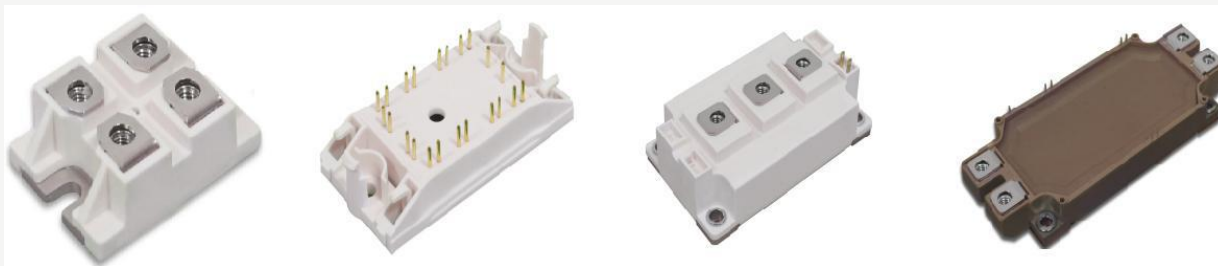


### SiC Modules Series

Voltage level: 400V/600V/650V/1200V/1700V

Current level: 10A-1400A

Application fields: Military power supply /  
electric vehicle / photovoltaic / high frequency  
and high efficiency applications



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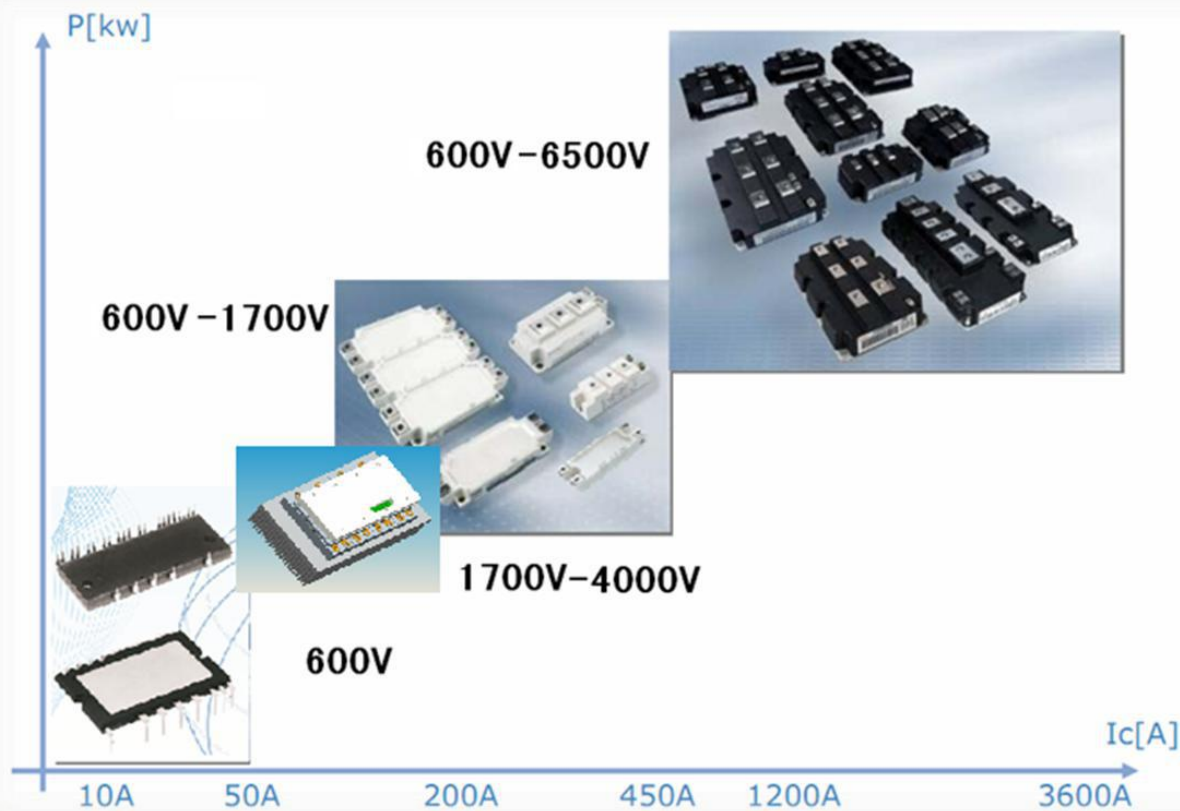
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# Power Modules

## IGBT modules

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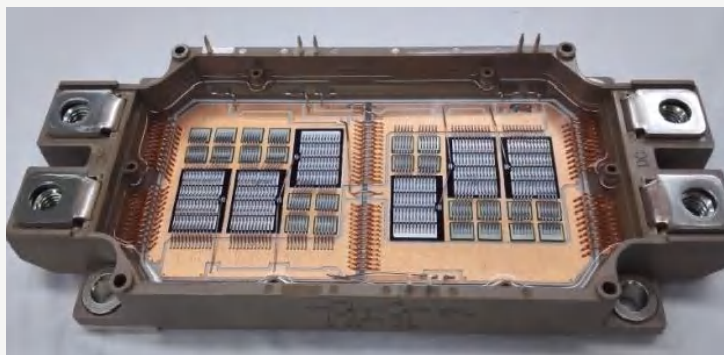


# Power Modules

## SiC modules

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## Solid state relay series

### Features

- Current: 0.5A~400A
- Voltage: 12V~680V
- Small General outline
- Vacuum Weld Technics
- Make R/C(MOV) inside could absorb out  $I_{TSM}$
- LED mean turn on or OFF
- Clarity protect Panel
- IEC standard
- Input & output type could chose DC/AC, AC/AC, DC/DC, AC/DC

### Typical Applications

- AC DC switch& Temp control
- Automate Control
- Numerical Control Machinery

### Ordering information Table

#### Device Code

SSR - D 48 40

① ② ③ ④

- 1 -ZENLI Solid State Relay
- 2 -D=DC/AC; A=AC/DC;  
V=voltage controls (AC/AC)  
(DC/DC)  
HD=big power DC/AC;  
3P=3-phase, DC/AC
- 3 -Load voltage=codeX10  
(48X10=480V)
- 4 -I<sub>d</sub> value: DC out current



SSR-1



SSR-2



SSR-3



SSR-4

| Control Parameter   |                     |                   |                      | Operating Parameter |                  |                  |                        |                   |                    |                        | Outline (Fig) |
|---------------------|---------------------|-------------------|----------------------|---------------------|------------------|------------------|------------------------|-------------------|--------------------|------------------------|---------------|
| Type                | Control voltage (V) | Open current (mA) | Turn-off voltage (V) | Rating current (A)  | Load voltage (V) | Voltage drop (V) | Off-state leakage (mA) | Turn-on time (ms) | Turn-off time (ms) | Insulation voltage (V) |               |
| SSR-D<br>10A~90A    | DC 3~14             | 5.0               | ≤1.5                 | 10~90               | 10~250           | ≤1.5             | ≤1                     | 10                | 10                 | DC 500                 | SSR-1         |
|                     | DC 3~12             |                   |                      |                     | 50~660           |                  | ≤5                     |                   |                    |                        |               |
| SSR-HD<br>80A~150A  | DC 3~14             | 6~25              | ≤1.5                 | 80~150              | 220~660          | ≤3               | ≤5                     | 10                | 10                 | AC 2000                | SSR-2         |
|                     | DC 3~32             |                   |                      |                     |                  |                  |                        |                   |                    | AC 2500                |               |
| SSR-HD<br>200A~350A | DC 3~14             | 6~25              | ≤1.5                 | 200~350             | 220~660          | ≤3               | ≤5                     | 10                | 10                 | AC 2000                | SSR-3         |
|                     | DC 3~32             |                   |                      |                     |                  |                  |                        |                   |                    | AC 2500                |               |
| SSR-3P<br>10A~90A   | DC 3~14             | 8~25              | ≤1.5                 | 10~90               | 30~660           | ≤3               | ≤5                     | 10                | 10                 | AC 2000                | SSR-4         |
|                     | DC 3~32             |                   |                      |                     |                  |                  |                        |                   |                    | AC 2500                |               |
| SSR-A<br>10A~40A    | AC 90~280           | 8.0               | ≤1.5                 | 10~40               | 24~280           | 2.0              | ≤5                     | 10                | 10                 | DC 500                 | SSR-1         |
|                     |                     |                   |                      |                     | 90~480           |                  |                        |                   |                    |                        |               |
| SSR-V<br>10A~40A    | AC 24~380           | 5.0               | ≤1.5                 | 10~40               | 10~250           | 2.0              | ≤5                     | 10                | 10                 | DC 500                 | SSR-1         |
|                     |                     |                   |                      |                     | 30~660           |                  |                        |                   |                    |                        |               |



<https://www.yzpst.net/yzpst-ssr40a-15893640946839760.html>

# Power Modules

## More modules

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<https://www.yzpst.net/single-thyristor-module-15893490138013940.html>

**Single Thyristor module**



<https://www.yzpst.com/thyristor-module/58783505.html>

**FRD module**

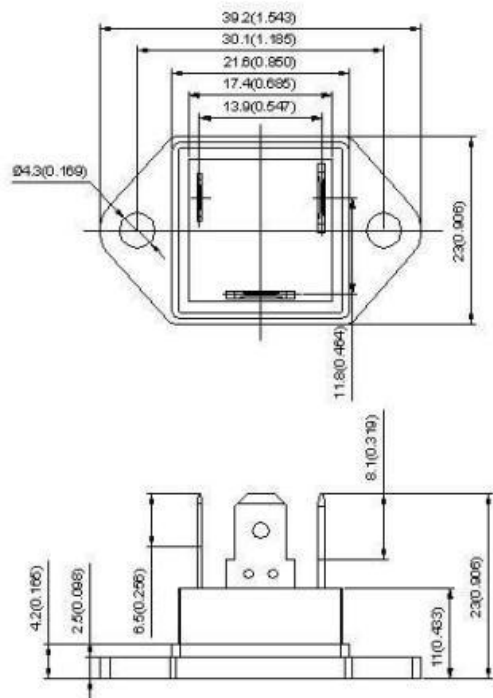


<https://www.yzpst.net/single-phase-rectifier-bridge-diode-module-15893493141985418.html>

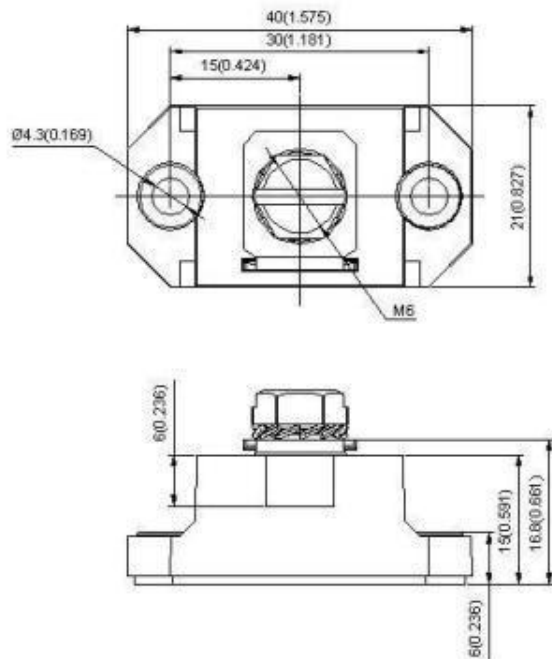
**Single-phase bridge rectifier module**

## Package Outline

TO-3



D-67(Half-pak)



# Power Modules

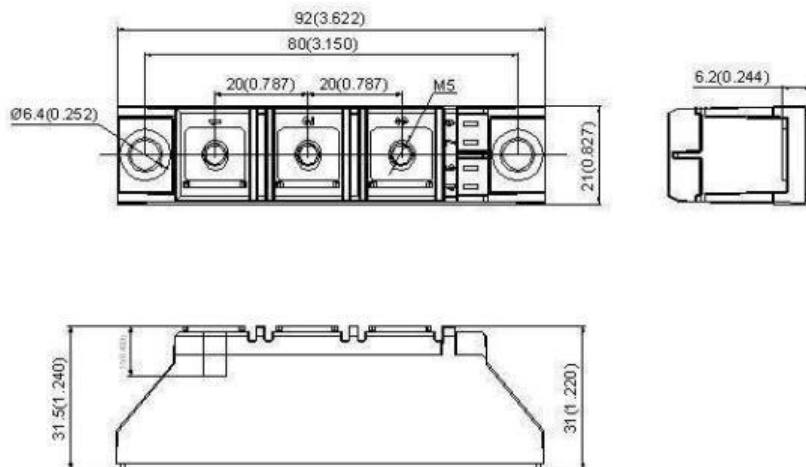
## Package Outline

YZPST.

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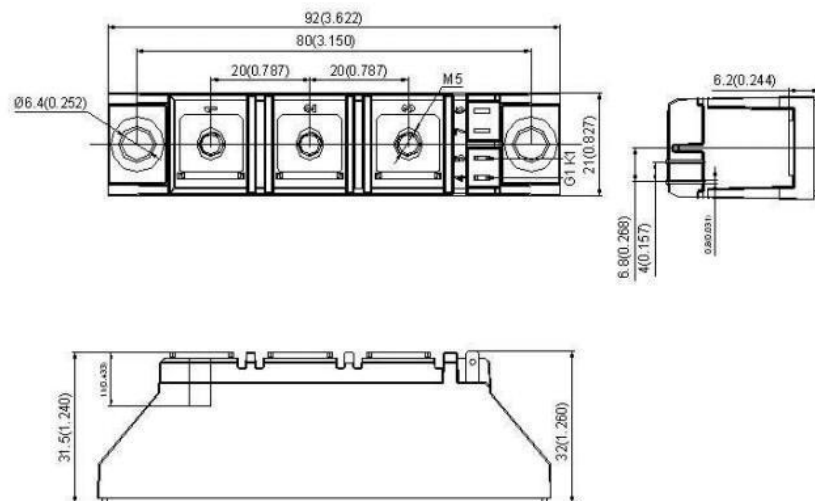
TO-240AA (ADD-A-PAK)

CKD



TO-240AA (ADD-A-PAK)

CKH



# Power Modules

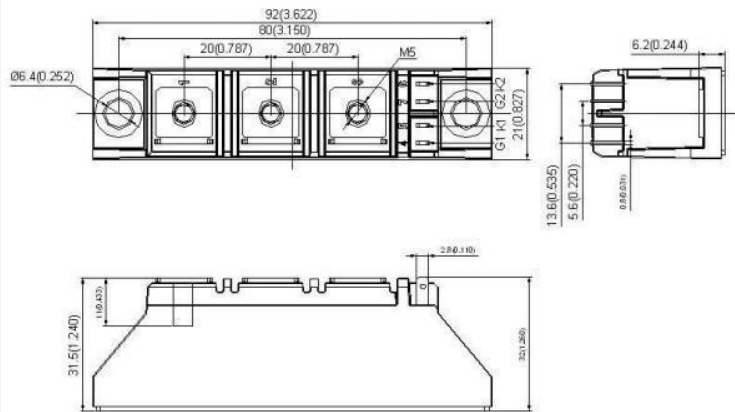
## Package Outline

YZPST

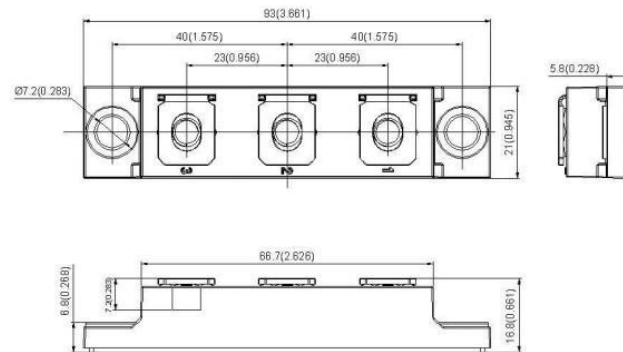
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TO-240AA (ADD-A-PAK)

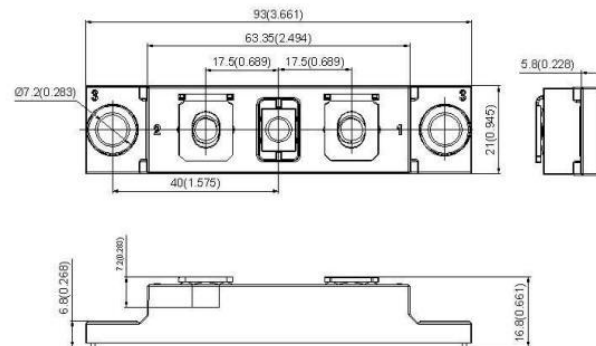
CKT



TO-244AB (Isolated)



TO-244AB (Non-Isolated)

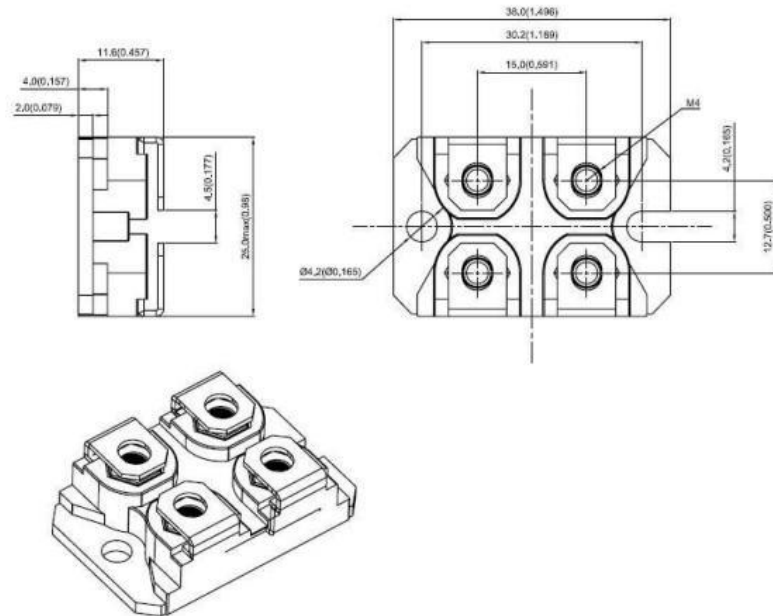
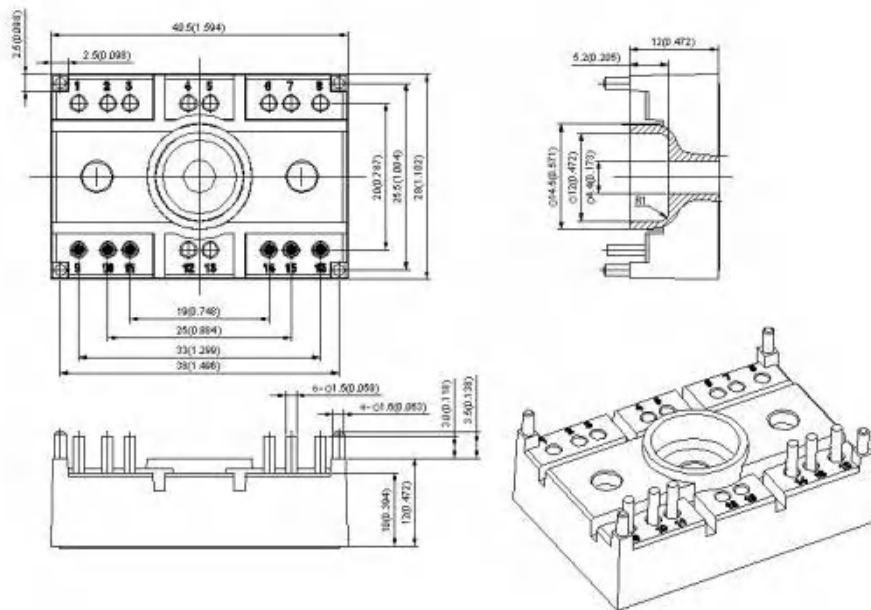


# Power Modules

## Package Outline

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YANGZHOU POSITIONING TECH. CO., LTD





# YZPST Products - Power Capacitors

# Power Capacitor

## Brief

Yangzhou Positioning Tech. Co., Ltd (YZPST) has her joint-venture factory which is specialized in kinds of capacitors with **100KPCS per year capacity**. Main Products include:

- **Electronic heat inductor furnace capacitors,**
- **Air-cooled and water-cooled tank capacitor,**
- **Medium Frequency Capacitors,**
- **High and low voltage shunt capacitors,**
- **AC/DC filter capacitor,**
- **Pulse capacitors,**
- **Super-audio capacitors,**
- **Locomotive capacitors,**
- **Power transmission capacitor,**
- **Damping and absorption capacitors (snubber capacitors),**
- **Impulse /Ignition capacitor etc.**



YZPST

YANGZHOU POSITIONING TECH. CO., LTD

# Power Capacitor

## Brief



YANGZHOU POSITIONING TECH. CO., LTD



The factory has the same **industry leading level of power capacitor professional production line:**

- The high purification of capacitor components rolling workshop cleanliness up to 1000 and local up to 100;
- Advanced **automatic winding machine**;
- High performance vacuum drying impregnation system and insulation oil purification and treatment equipment;
- Exquisite core technology and advanced technology to ensure excellent and stable product performance.

**The chief engineer** comes from the famous company and has been devoted mind on power kinds capacitors **for more than 26 years**, most capacitors industrial standards are written by him. We have a strong technology team to be sure that new products are continue to be developed and all products are controlled well in high class quality level.

# Power Capacitor

## Brief

The **Electro-thermal capacitors and DC filter capacitors** are mainly used in high-power series resonant and parallel resonant intermediate frequency power supply systems. They are widely used in induction heating, smelting, casting, foundry and other industries.

**High voltage shunt capacitors** are used in the power transmission and transformation industry to improve the power factor of the system and enhance the quality of the power grid.

The products have a **high share in China**, and also used for **Inductotherm, Electrotherm, Megatherm, Pillar, Superheat, A BP, Mitsubishi electric, Fuji equipment and other manufacturers of induction Furnace.**

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<https://www.yzpst.net/induction-heating-capacitor-15879813907101521.html>



<https://www.yzpst.net/yzpst-mcam80-2uf-16508698855466659.html>

# Power Capacitor

YZPST

YANGZHOU POSITIONING TECH. CO., LTD

## DCMJ series , Low/Middle frequency water cooled DC filter Power Capacitor

### Function and Application:

- To be applied for AC input voltage 380--1150V,
- Middle DC voltage less than 2kv,
- Low frequency (<1KHz),
- Middle frequency (1-8KHz)
- Induct furnace power supply series circuit.

### The technology unique point:

- Special deposition metal film, igh  $dv/dt$ ,  $di/dt$
- Double sides water cooling ,improve the electronic current ability
- Single /grouping water cooled scheme can be customized
- Cooling water must be pure water, the out water temperature will be less than 40°C

### Conditions of use/technical

#### parameters/product standards:

- The temperature range:  $-25^{\circ}\text{C} \sim +50^{\circ}\text{C}$
- Rated voltage:  $U_N(\text{dc}) \leq 2\text{KV}(\text{DC})$
- Rated capacity CN:  $\leq 8000\mu\text{F}$
- Capacity error  $\Delta C$ :  $\pm 5\%$
- Maximum current  $I_{\text{rms}} \leq 2500\text{A}$  (Products can be customized, 3000-4000A)

#### Products standards:

- IEC61071-1 (1991)
- GB/T17702.1-1999

### Also can be made according to the customers' standards



<https://www.yzpst.com/ram-rfm-series-capacitors/61940943.html>



<https://www.yzpst.com/dcmj-dc-support-capacitors/58635738.html>

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# Power Capacitor

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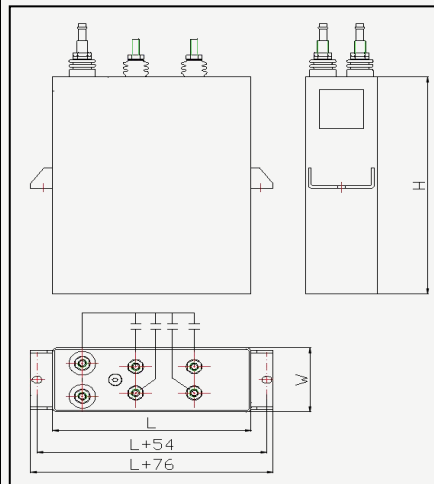
YANGZHOU POSITIONING TECH. CO., LTD

## DCMJ series , Low/Middle frequency water cooled DC filter Power Capacitor

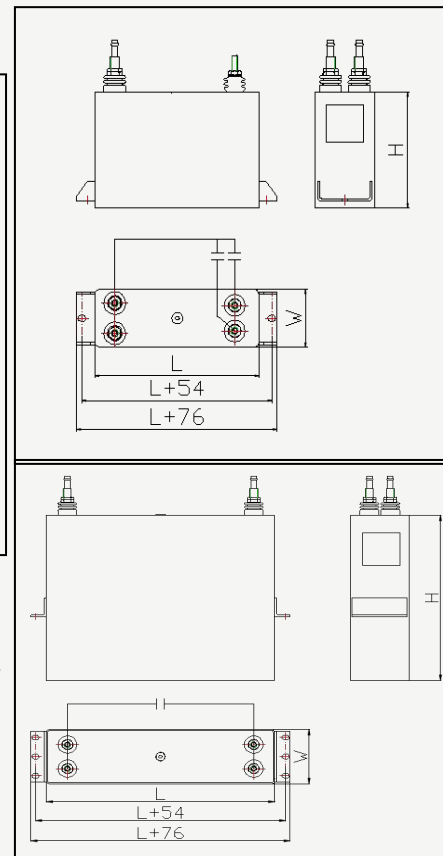
DCMJ  $U_N$  —  $C_N$ ,  $F_N$ ,  $I_{max}$

| Rated voltage<br>$U_N$ -KV | Rated capacitance<br>$C_N$ -uF | Apply frequency<br>$F_N$ -KHz | Maximum current<br>$I_{max}$ -A | L<br>mm | W<br>mm | H<br>mm | legend |
|----------------------------|--------------------------------|-------------------------------|---------------------------------|---------|---------|---------|--------|
| 0.8 (380V)                 | 7300                           | 0.25-0.3                      | 2200                            | 559     | 145     | 560     | 1      |
|                            | 5100                           | 0.5-0.7                       | 1800                            | 559     | 145     | 420     | 1      |
|                            | 2250                           | 1-1.5                         | 1200                            | 343     | 145     | 350     | 1      |
|                            | 1300                           | 2-3                           | 1000                            | 343     | 105     | 350     | 1      |
|                            | 300 (2*150)                    | 5-8                           | 600                             | 343     | 114     | 229     | 2      |
| 0.9 (575V)                 | 7400                           | 0.25-0.3                      | 2500                            | 559     | 145     | 680     | 1      |
|                            | 5000                           | 0.5-0.7                       | 2000                            | 559     | 145     | 480     | 1      |
|                            | 1700                           | 1-1.5                         | 1200                            | 343     | 145     | 350     | 1      |
|                            | 1000                           | 2-3                           | 1000                            | 343     | 105     | 350     | 1      |
|                            | 300 (2*150)                    | 5-8                           | 600                             | 343     | 114     | 229     | 2      |
| 1.6 (690V) (380*2)         | 5200                           | 0.25-0.3                      | 2500                            | 559     | 145     | 650     | 1      |
| 1.8 (1000V) (575*2)        | 5200                           | 0.25-0.3                      | 2500                            | 559     | 165     | 660     | 1      |

### Drwawings :



- Can be customized by 2/4 grouping, single water cooling.
- Also custom design is accepted.



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## RAM series , Low/Middle frequency power water cooled heating capacitors

### Function and Application:

- To be applied for A/c harmonic voltage  $\leq 4.0\text{KV}$
- Frequency  $< 10\text{KHz}$  induct heat power supply
- To provide reactive power capacitive current

### The technology unique point:

- The whole film oil-immersed structure NO PCB
- A - Double sides water cooled, No group, Improve the ability of large current
- B - Single side water cooled, Group, Provide testing current unit

### Conditions of use/technical

#### parameters/product standards:

- The temperature range:  $-25^{\circ}\text{C} \sim +50^{\circ}\text{C}$
- Cooling water to pure water, outlet temperature  $< 40^{\circ}\text{C}$
- Rated voltage:  $1 \sim 4.0\text{KV}$
- Rated frequency:  $< 10\text{KHz}$
- Nominal capacity:  $1800 \sim 6600\text{Kar}$
- Maximum current:  $\leq 2500\text{A}$

#### Products standards:

- IEC60110-1 (1998)
- GB/T3984.1-2004

**Also can be made according to the customers' standards**



<https://www.yzpst.com/ram-rfm-electric-heating-capacitors/60861607.html>

# Power Capacitor



YANGZHOU POSITIONING TECH. CO., LTD

## RAM series , Low/Middle frequency power water cooled heating capacitors

| RFM U <sub>N</sub> — Q <sub>N</sub> — F <sub>N</sub> |                         |                             |                           |                             |                       |         |         |         |       |
|------------------------------------------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|-----------------------|---------|---------|---------|-------|
| Type                                                 | Rated voltage:<br>UN-KV | Nominal capacity:<br>QN-Kar | Rated frequency<br>FN-KHz | Rated capacitance:<br>CN-uF | Rated current<br>IN-A | L<br>mm | W<br>mm | H<br>mm | Group |
| RFM2-3200-0.15S/A                                    | UN-KV                   | QN-Kar                      | 0.15                      | capacitance                 | 1600                  | 559     | 285     | 860     | NO    |
| RFM2-3200-0.15S/B                                    | 2                       | 3200                        | 0.15                      | 8*106                       | 8*200                 | 559     | 285     | 860     | 8     |
| RFM3-4800-0.15S/A                                    | 3                       | 4800                        | 0.15                      | 566                         | 1600                  | 559     | 285     | 1000    | NO    |
| RFM3-4800-0.15S/B                                    | 3                       | 4800                        | 0.15                      | 8*71                        | 8*200                 | 559     | 285     | 1000    | 8     |
|                                                      |                         |                             |                           |                             |                       |         |         |         |       |
| RFM2-4000-0.25S/A                                    | 2                       | 4000                        | 0.25                      | 637                         | 2000                  | 559     | 285     | 680     | No    |
| RFM2-4000-0.25S/B                                    | 2                       | 4000                        | 0.25                      | 8*80                        | 8*250                 | 559     | 285     | 680     | 8     |
| RFM3-6000-0.25S/A                                    | 3                       | 6000                        | 0.25                      | 425                         | 2000                  | 559     | 285     | 760     | No    |
| RFM3-6000-0.25S/B                                    | 3                       | 6000                        | 0.25                      | 8*53                        | 8*250                 | 559     | 285     | 760     | 8     |
|                                                      |                         |                             |                           |                             |                       |         |         |         |       |
| RFM2-4000-0.3S/A                                     | 2                       | 4000                        | 0.3                       | 531                         | 2000                  | 559     | 285     | 570     | No    |
| RFM2-4000-0.3S/B                                     | 2                       | 4000                        | 0.3                       | 8*66                        | 8*250                 | 559     | 285     | 570     | 8     |
| RFM3-6000-0.3S/A                                     | 3                       | 6000                        | 0.3                       | 354                         | 2000                  | 559     | 285     | 790     | No    |
| RFM3-6000-0.3S/B                                     | 3                       | 6000                        | 0.3                       | 8*44                        | 8*250                 | 559     | 285     | 790     | 8     |
|                                                      |                         |                             |                           |                             |                       |         |         |         |       |
| RFM2-4000-0.5S/A                                     | 2                       | 4000                        | 0.5                       | 318                         | 2000                  | 559     | 285     | 410     | No    |
| RFM2-4000-0.5S/B                                     | 2                       | 4000                        | 0.5                       | 8*40                        | 8*250                 | 559     | 285     | 410     | 8     |
| RFM3-6000-0.5S/A                                     | 3                       | 6000                        | 0.5                       | 212                         | 2000                  | 559     | 285     | 500     | No    |
| RFM3-6000-0.5S/B                                     | 3                       | 6000                        | 0.5                       | 8*27                        | 8*250                 | 559     | 285     | 500     | 8     |
|                                                      |                         |                             |                           |                             |                       |         |         |         |       |
| RFM2-4000-1S/A                                       | 2                       | 4000                        | 1                         | 159                         | 2000                  | 559     | 203     | 350     | No    |
| RFM2-4000-1S/B                                       | 2                       | 4000                        | 1                         | 8*20                        | 8*250                 | 559     | 203     | 350     | 8     |
| RFM3-6000-1S/A                                       | 3                       | 6000                        | 1                         | 106                         | 2000                  | 559     | 203     | 400     | No    |
| RFM3-6000-1S/B                                       | 3                       | 6000                        | 1                         | 8*13                        | 8*250                 | 559     | 203     | 400     | 8     |

| RFM U <sub>N</sub> — Q <sub>N</sub> — F <sub>N</sub> |                         |                             |                           |                             |                       |         |         |         |       |
|------------------------------------------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|-----------------------|---------|---------|---------|-------|
| Type                                                 | Rated voltage:<br>UN-KV | Nominal capacity:<br>QN-Kar | Rated frequency<br>FN-KHz | Rated capacitance:<br>CN-uF | Rated current<br>IN-A | L<br>mm | W<br>mm | H<br>mm | Group |
| RFM2-4000-1.2S/A                                     | 2                       | 4000                        | 1.2                       | 133                         | 2000                  | 559     | 203     | 310     | No    |
| RFM2-4000-1.2S/B                                     | 2                       | 4000                        | 1.2                       | 8*17                        | 8*250                 | 559     | 203     | 310     | 8     |
| RFM3-6000-1.2S/A                                     | 3                       | 6000                        | 1.2                       | 88                          | 2000                  | 559     | 203     | 350     | No    |
| RFM3-6000-1.2S/B                                     | 3                       | 6000                        | 1.2                       | 8*11                        | 8*250                 | 559     | 203     | 350     | 8     |
|                                                      |                         |                             |                           |                             |                       |         |         |         |       |
| RFM2-4000-1.5S/A                                     | 2                       | 4000                        | 1.5                       | 106                         | 2000                  | 559     | 203     | 270     | No    |
| RFM2-4000-1.5S/B                                     | 2                       | 4000                        | 1.5                       | 8*13                        | 8*250                 | 559     | 203     | 270     | 8     |
| RFM3-6000-1.5S/A                                     | 3                       | 6000                        | 1.5                       | 71                          | 2000                  | 559     | 203     | 350     | No    |
| RFM3-6000-1.5S/B                                     | 3                       | 6000                        | 1.5                       | 8*9                         | 8*250                 | 559     | 203     | 350     | 8     |
|                                                      |                         |                             |                           |                             |                       |         |         |         |       |
| RFM2-4000-2S/A                                       | 2                       | 4000                        | 2                         | 80                          | 2000                  | 343     | 159     | 420     | NO    |
| RFM2-4000-2S/B                                       | 2                       | 4000                        | 2                         | 8*10                        | 8*250                 | 343     | 159     | 420     | 8     |
| RFM3-6000-2S/A                                       | 3                       | 6000                        | 2                         | 53                          | 2000                  | 343     | 159     | 530     | NO    |
| RFM3-6000-2S/B                                       | 3                       | 6000                        | 2                         | 8*7                         | 8*250                 | 343     | 159     | 530     | 8     |
|                                                      |                         |                             |                           |                             |                       |         |         |         |       |
| RFM2-4000-2.5S/A                                     | 2                       | 4000                        | 2.5                       | 64                          | 2000                  | 343     | 159     | 360     | NO    |
| RFM2-4000-2.5S/B                                     | 2                       | 4000                        | 2.5                       | 8*8                         | 8*250                 | 343     | 159     | 360     | 8     |
| RFM3-6000-2.5S/A                                     | 3                       | 6000                        | 2.5                       | 42                          | 2000                  | 343     | 159     | 450     | NO    |
| RFM3-6000-2.5S/B                                     | 3                       | 6000                        | 2.5                       | 8*5                         | 8*250                 | 343     | 159     | 450     | 8     |
|                                                      |                         |                             |                           |                             |                       |         |         |         |       |
| RFM2-4000-3S/A                                       | 2                       | 4000                        | 3                         | 53                          | 2000                  | 343     | 159     | 320     | NO    |
| RFM2-4000-3S/B                                       | 2                       | 4000                        | 3                         | 8*7                         | 8*250                 | 343     | 159     | 320     | 8     |
| RFM3-6000-3S/A                                       | 3                       | 6000                        | 3                         | 35                          | 2000                  | 343     | 159     | 390     | NO    |
| RFM3-6000-3S/B                                       | 3                       | 6000                        | 3                         | 8*4                         | 8*250                 | 343     | 159     | 390     | 8     |

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## RAM series , Low/Middle frequency power water cooled heating capacitors

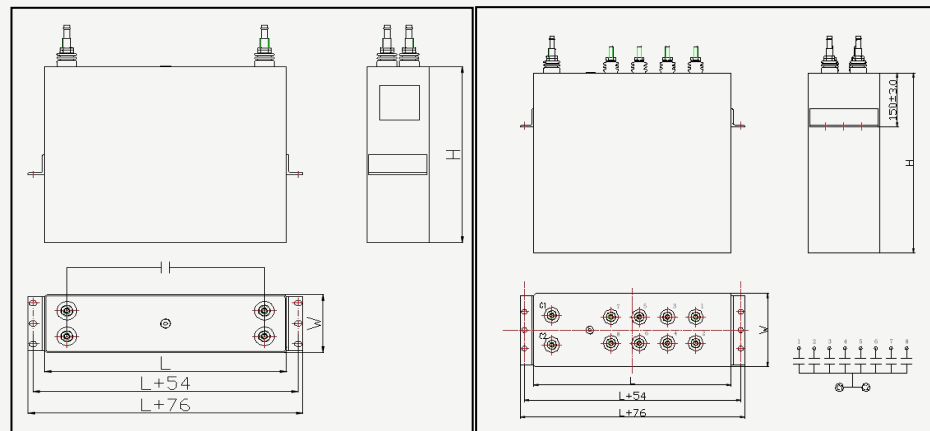
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| RFM U <sub>N</sub> — Q <sub>N</sub> — F <sub>N</sub> |                         |                             |                           |                             |                       |         |         |         |       |
|------------------------------------------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|-----------------------|---------|---------|---------|-------|
| Type                                                 | Rated voltage:<br>UN-KV | Nominal capacity:<br>QN-Kar | Rated frequency<br>FN-KHz | Rated capacitance:<br>CN-uF | Rated current<br>IN-A | L<br>mm | W<br>mm | H<br>mm | Group |
| RFM2-4000-3S/A                                       | 2                       | 4000                        | 3                         | 53                          | 2000                  | 343     | 159     | 320     | NO    |
| RFM2-4000-3S/B                                       | 2                       | 4000                        | 3                         | 8*7                         | 8*250                 | 343     | 159     | 320     | 8     |
| RFM3-6000-3S/A                                       | 3                       | 6000                        | 3                         | 35                          | 2000                  | 343     | 159     | 390     | NO    |
| RFM3-6000-3S/B                                       | 3                       | 6000                        | 3                         | 8*4                         | 8*250                 | 343     | 159     | 390     | 8     |
|                                                      |                         |                             |                           |                             |                       |         |         |         |       |
| RFM1.5-3000-5S/A                                     | 1.5                     | 3000                        | 5                         | 42                          | 2000                  | 343     | 145     | 340     | NO    |
| RFM1.5-3000-5S/B                                     | 1.5                     | 3000                        | 5                         | 8*5                         | 8*250                 | 343     | 145     | 340     | 8     |
| RFM2-4000-5S/A                                       | 2                       | 4000                        | 5                         | 32                          | 2000                  | 343     | 145     | 400     | NO    |
| RFM2-4000-5S/B                                       | 2                       | 4000                        | 5                         | 8*4                         | 8*250                 | 343     | 145     | 400     | 8     |
|                                                      |                         |                             |                           |                             |                       |         |         |         |       |
| RFM1.5-3000-6S/A                                     | 1.5                     | 3000                        | 6                         | 35                          | 2000                  | 343     | 145     | 300     | NO    |
| RFM1.5-3000-6S/B                                     | 1.5                     | 3000                        | 6                         | 8*4                         | 8*250                 | 343     | 145     | 300     | 8     |
| RFM2-4000-6S/A                                       | 2                       | 4000                        | 6                         | 27                          | 2000                  | 343     | 145     | 430     | NO    |
| RFM2-4000-6S/B                                       | 2                       | 4000                        | 6                         | 8*3                         | 8*250                 | 343     | 145     | 430     | 8     |
|                                                      |                         |                             |                           |                             |                       |         |         |         |       |
| RFM1.5-3000-8S/A                                     | 1.5                     | 3000                        | 8                         | 27                          | 2000                  | 343     | 145     | 230     | NO    |
| RFM1.5-3000-8S/B                                     | 1.5                     | 3000                        | 8                         | 8*3                         | 8*250                 | 343     | 145     | 230     | 8     |
| RFM2-4000-8S/A                                       | 2                       | 4000                        | 8                         | 20                          | 2000                  | 343     | 145     | 320     | NO    |
| RFM2-4000-8S/B                                       | 2                       | 4000                        | 8                         | 8*3                         | 8*250                 | 343     | 145     | 320     | 8     |

### Product schematic diagram

(Three view drawing )



A - Double sides water cooled ,  
no group

B - Single side water cooled,  
8 groups

## RAM series , Low/Middle frequency power water cooled heating capacitors

### Function and Application:

- To be applied for A/C harmonic voltage  $\leq 4.0\text{KV}$ ,
- Frequency  $< 1\text{KHz}$  induct heat power supply,
- To provide reactive power capacitive current

### Product standards:

- IEC60110-1 (1998)
- GB/T3984.1-2004

**Also can be made according to customer standard**

### The technology unique point:

- The whole film oil-immersed structure NOPCB
- No water, ventilation and cooling
- The wind speed or  $4\text{ m/S}$

### Conditions of use/technical parameters/product

#### standards:

- Temperature range:  $25\text{ }^{\circ}\text{C} \sim +45\text{ }^{\circ}\text{C}$
- Environmental temperature:  $< 45\text{ }^{\circ}\text{C}$
- Rated voltage UN:  $1 \sim 4.0\text{ KV}$
- Rated frequency FN:  $< 1\text{ KHZ}$
- QN the rated capacity:  $500 \sim 3000\text{ kar}$
- The maximum current: IN  $2000\text{ a}$  or less



<https://www.yzpst.com/ram-rfm-electric-heating-capacitors/58644387.html>

# Power Capacitor

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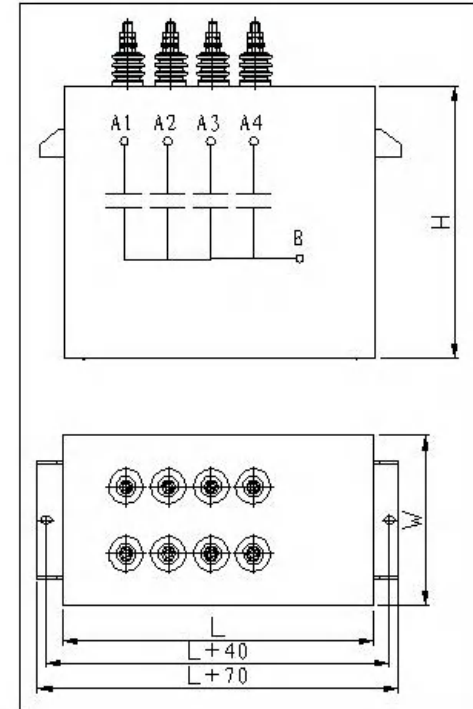
YANGZHOU POSITIONING TECH. CO., LTD

## RAM series , Low/Middle frequency power water cooled heating capacitors

RAM  $U_N$  —  $Q_N$  —  $F_N$

| Type                             | Rated voltage:<br>U<br>UN-KV | Nominal<br>capacity:<br>QN-Kar | Rated<br>frequency<br>FN-KHz | Rated capacitance:<br>CN-uF | Rated current<br>IN-A | L<br>mm | W<br>mm | H<br>mm | Group |
|----------------------------------|------------------------------|--------------------------------|------------------------------|-----------------------------|-----------------------|---------|---------|---------|-------|
| RFM <sub>8</sub> 1.7-1500-0.25F  | 1.7                          | 1500                           | 0.25                         | 4*82.5                      | 882                   | 390     | 205     | 690     | 4     |
| RFM1.7-1667-0.25F                | 1.7                          | 1667                           | 0.25                         | 4*91.2                      | 980                   | 440     | 205     | 605     | 4     |
| RFM <sub>8</sub> 1.7-1000-0.15F  | 1.7                          | 1000                           | 0.15                         | 4*91.2                      | 588                   | 390     | 205     | 690     | 4     |
| RAM <sub>8</sub> 1.7-1500-0.15F  | 1.7                          | 1500                           | 0.15                         | 4*137                       | 882                   | 440     | 205     | 635     | 4     |
|                                  |                              |                                |                              |                             |                       |         |         |         |       |
| RAM <sub>3</sub> 1.7-3000-0.25F  | 1.7                          | 3000                           | 0.25                         | 8*82.5                      | 1765                  | 440     | 285     | 585     | 8     |
| RAM1.8-1680-0.25F                | 1.8                          | 1680                           | 0.25                         | 4*82.5                      | 933                   | 440     | 205     | 605     | 4     |
| RAM <sub>8</sub> 1.8-1680-0.25F  | 1.8                          | 1680                           | 0.25                         | 4*82.5                      | 933                   | 390     | 205     | 615     | 4     |
| RAM <sub>8</sub> 1.95-1500-0.15F | 1.95                         | 1500                           | 0.15                         | 4*104                       | 769                   | 440     | 205     | 645     | 4     |
| RAM2.5-2000-0.3F                 | 2.5                          | 2000                           | 0.3                          | 4*425                       | 800                   | 390     | 205     | 640     | 4     |

Product schematic diagram (Three view drawing )



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# Power Capacitor

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YANGZHOU POSITIONING TECH. CO., LTD

## RFM series, super audio water-cooled electric capacitance

### Function and Application:

- To be applied for A/C harmonic voltage  $\leq 4.0\text{KV}$
- Frequency  $< 50\text{KHz}$
- induct heat power supply
- To provide reactive power capacitive current

### Product standards:

- IEC60110-1 (1998)
- GB/T3984.1-2004

**Also can be made according to customer standard**

### The technology unique point:

- The whole film oil-immersed structure NO PCB
- Single water/grouping scheme can be customized
- The outlet temperature of the cooling water to pure water  $< 40^\circ\text{C}$



### Conditions of use/technical

#### parameters/product standards:

- Temperature range:  $25^\circ\text{C} \sim +50^\circ\text{C}$
- The outlet temperature of the cooling water to pure water  $< 40^\circ\text{C}$
- Rated voltage UN:  $1 \sim 4.0\text{KV}$
- Rated frequency FN:  $< 50\text{KHz}$
- QN the rated capacity:  $500 \sim 2000\text{kar}$
- The maximum current:  $\leq 1000\text{A}$

<https://www.yzpst.com/ram-rfm-middle-frequency-water-cooled-capacitors-229/61941148.html>

# Power Capacitor

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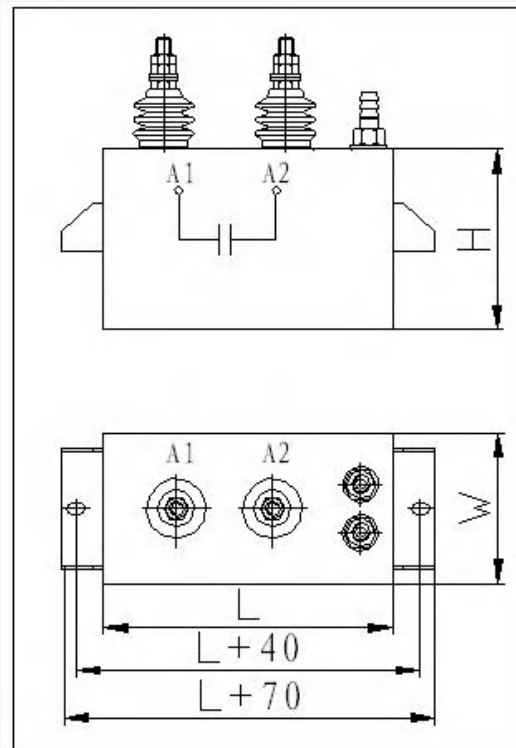
YANGZHOU POSITIONING TECH. CO., LTD

## RFM series, super audio water-cooled electric capacitance

RAM  $U_N$  —  $Q_N$  —  $F_N$

| Type                         | Rated voltage:<br>U<br>UN-KV | Nominal<br>capacity:<br>QN-Kar | Rated<br>frequency<br>FN-KHz | Rated capacitance:<br>CN-uF | Rated current<br>IN-A | L<br>mm | W<br>mm | H<br>mm | Group |
|------------------------------|------------------------------|--------------------------------|------------------------------|-----------------------------|-----------------------|---------|---------|---------|-------|
| RFM3.0-500-15S               | 3.0                          | 500                            | 15                           | 0.59                        | 167                   | 303     | 122     | 165     | NO    |
| RFM4.0-1050-35S              | 4.0                          | 1050                           | 35                           | 0.298                       | 263                   | 303     | 122     | 165     | NO    |
| RFM <sub>3</sub> 3.0-500-30S | 3.0                          | 500                            | 30                           | 0.295                       | 167                   | 240     | 125     | 150     | NO    |
| RFM3.0-560-25S               | 3.0                          | 560                            | 25                           | 0.396                       | 187                   | 303     | 122     | 165     | NO    |
|                              |                              |                                |                              |                             |                       |         |         |         |       |
| RFM3.0-680-20S               | 3.0                          | 680                            | 20                           | 0.601                       | 227                   | 303     | 122     | 165     | NO    |
| RFM4.0-694-23S               | 4.0                          | 694                            | 23                           | 0.300                       | 174                   | 240     | 125     | 150     | NO    |
| RFM4.0-700-30S               | 4.0                          | 700                            | 30                           | 0.232                       | 175                   | 303     | 122     | 165     | NO    |
| RFM4.0-750-25S               | 4.0                          | 750                            | 25                           | 0.298                       | 189                   | 303     | 122     | 165     | NO    |
| RFM4.0-804-20S               | 4.0                          | 804                            | 20                           | 0.400                       | 201                   | 285     | 125     | 170     | NO    |

Product schematic diagram (Three view drawing) :



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# Power Capacitor

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## BFM, BAM series, high voltage parallel capacitor

### Function and Application:

- That applies to more than special used to improve the voltage of 1000 v, 50 hz ac capacitor unit of the power factor of power system and capacitor Banks

### Product standards:

- IEC60871-1 ( 2005 )
- GB/T11024.1-2010

**Also can be made according to customer standard**

### The technology unique point:

- The whole film oil-immersed structure NO PCB
- Whether can be customized using built-in fuse
- Built-in discharge resistance

### Conditions of use/technical

#### parameters/product standards:

- Temperature range:  $-50^{\circ}\text{C} \sim +55^{\circ}\text{C}$
- Rated voltage UN: 1 ~ 14KV
- Rated frequency FN: 50Hz
- QN the rated capacity: 50 ~ 500Kar
- Maximum current IN:  $\leq 100\text{A}$



<https://www.yzpst.com/bam-power-transmission-capacitors/61941263.html>

# Power Capacitor

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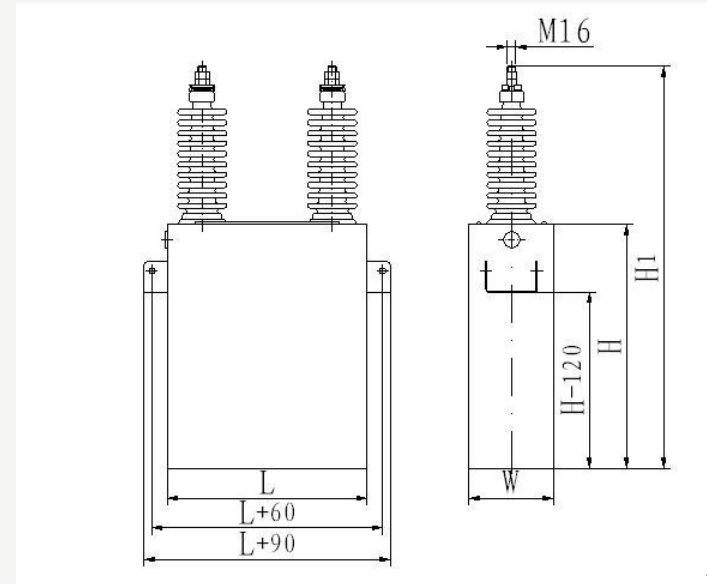
YANGZHOU POSITIONING TECH. CO., LTD

## BFM, BAM series, high voltage parallel capacitor

BFM  $U_N$  —  $Q_N$  —  $F_N$

| Type             | Rated voltage:<br>U<br>UN-KV | Nominal<br>capacity:<br>QN-Kar | Rated<br>frequency<br>FN-KHz | Rated capacitance:<br>CN-uF | Rated current<br>IN-A | L<br>mm | W<br>mm | H<br>mm | Group |
|------------------|------------------------------|--------------------------------|------------------------------|-----------------------------|-----------------------|---------|---------|---------|-------|
| BFM6.6/√3-100-1W | 6.6/√3                       | 100                            | 50                           | 21.9                        | 26.2                  | 383     | 163     | 270     | 570   |
| BFM6.6/√3-200-1W | 6.6/√3                       | 200                            | 50                           | 43.8                        | 52.5                  | 383     | 163     | 430     | 730   |
| BFM6.6/√3-300-1W | 6.6/√3                       | 300                            | 50                           | 65.8                        | 78.7                  | 383     | 163     | 600     | 900   |
| BFM11/√3-100-1W  | 11/√3                        | 100                            | 50                           | 7.9                         | 15.8                  | 383     | 163     | 270     | 570   |
|                  |                              |                                |                              |                             |                       |         |         |         |       |
| BFM11/√3-200-1W  | 11/√3                        | 200                            | 50                           | 15.8                        | 31.5                  | 383     | 163     | 430     | 730   |
| BFM11/√3-300-1W  | 11/√3                        | 300                            | 50                           | 23.7                        | 47.2                  | 383     | 163     | 600     | 900   |
| BFM11/√3-334-1W  | 11/√3                        | 334                            | 50                           | 26.5                        | 52.6                  | 383     | 179     | 600     | 900   |
| BFM11/√3-400-1W  | 11/√3                        | 400                            | 50                           | 31.6                        | 63.0                  | 383     | 179     | 700     | 1000  |
| BFM11/√3-500-1W  | 11/√3                        | 500                            | 50                           | 39.5                        | 78.7                  | 383     | 179     | 860     | 1160  |

### Product schematic diagram (Three view drawing)



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# Power Capacitor

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## AFM, AAM series, the high voltage AC filter capacitor

### Function and Application:

- Suitable for ac harmonic filter and under the fundamental frequency 50HZ AC filter capacitor for reactive power compensation and ac filter capacitor group

### Product standards:

- GB/T 20994-2007

**Also can be made according to customer standard**

### The technology unique point:

- All membrane oil-immersed structure, NO PCB
- Whether can be customized using built-in fuse
- Built-in discharge resistance

### Conditions of use/technical

#### parameters/product standards:

- The temperature range: 50°C ~ +55 °C
- Rated voltage UN: 1 ~ 14KV
- Rated frequency FN: 50Hz
- QN the rated capacity: 50 ~ 500Kar
- Maximum current IN:  $\leq 100A$



<https://www.yzpst.com/bam-power-transmission-capacitors/61941259.html>

# Power Capacitor

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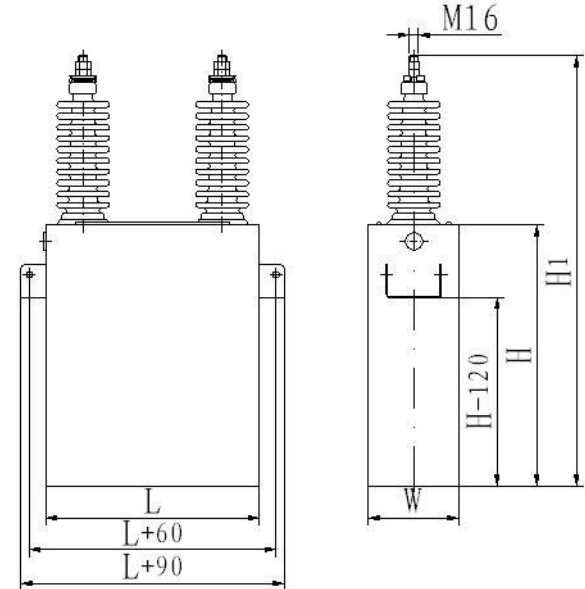
YANGZHOU POSITIONING TECH. CO., LTD

AFM, AAM series, the high voltage AC filter capacitor

AFM  $U_N$  —  $Q_N$  —  $F_N$

| Type             | Rated voltage:<br>U<br>UN-KV | Nominal<br>capacity:<br>QN-Kar | Rated<br>frequency<br>FN-KHz | Rated capacitance:<br>CN-uF | Rated current<br>IN-A | L<br>mm | W<br>mm | H<br>mm | Group |
|------------------|------------------------------|--------------------------------|------------------------------|-----------------------------|-----------------------|---------|---------|---------|-------|
| AFM6.6/√3-100-1W | 6.6/√3                       | 100                            | 50                           | 21.9                        | 26.2                  | 383     | 163     | 270     | 570   |
| AFM6.6/√3-200-1W | 6.6/√3                       | 200                            | 50                           | 43.8                        | 52.5                  | 383     | 163     | 430     | 730   |
| AFM6.6/√3-300-1W | 6.6/√3                       | 300                            | 50                           | 65.8                        | 78.7                  | 383     | 163     | 600     | 900   |
| AFM11/√3-100-1W  | 11/√3                        | 100                            | 50                           | 7.9                         | 15.8                  | 383     | 163     | 270     | 570   |
|                  |                              |                                |                              |                             |                       |         |         |         |       |
| AFM11/√3-200-1W  | 11/√3                        | 200                            | 50                           | 15.8                        | 31.5                  | 383     | 163     | 430     | 730   |
| AFM11/√3-300-1W  | 11/√3                        | 300                            | 50                           | 23.7                        | 47.2                  | 383     | 163     | 600     | 900   |
| AFM11/√3-334-1W  | 11/√3                        | 334                            | 50                           | 26.5                        | 52.6                  | 383     | 179     | 600     | 900   |
| AFM11/√3-400-1W  | 11/√3                        | 400                            | 50                           | 31.6                        | 63.0                  | 383     | 179     | 700     | 1000  |
| AFM11/√3-500-1W  | 11/√3                        | 500                            | 50                           | 39.5                        | 78.7                  | 383     | 179     | 860     | 1160  |

Product schematic diagram (Three view drawing )



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# Power Capacitor

## Product list

| Part Number       | Voltage(KV) | Capacity(kvar) | Frequency(KHZ) | Capacitance(uf) | Current(A) | Dimensions(mm) | Weight(kg) |
|-------------------|-------------|----------------|----------------|-----------------|------------|----------------|------------|
| RFMO.25-150-12S   | 0.25        | 150            | 12             | 31.8            | 600.0      | 355*120*140    |            |
| RFMO.25-150-12S8  | 0.25        | 150            | 12             | 31.8            | 600.0      | 355*120*140    |            |
| RFMO.25-500-1.6S  | 0.25        | 500            | 1.6            | 796.2           | 2000.0     | 390*205*490    | 55         |
| RFMO.25-946-6.6S  | 0.25        | 946            | 6.6            | 365.2           | 3784.0     | 559*150*405    | 52         |
| RFMO.27-176-2.4S  | 0.27        | 176            | 2.4            | 160.2           | 651.9      | 336*142*230    | 18         |
| RFMO.3-287-4.4S   | 0.3         | 287            | 4.4            | 115.4           | 956.7      | 336*145*215    | 16         |
| RFMO.36-550-2.7S  | 0.36        | 550            | 2.7            | 250.3           | 1527.8     | 336*145*325    | 26         |
| RFMO.4-290-1.1S   | 0.4         | 290            | 1.1            | 262.4           | 725.0      | 379*145*285    | 25         |
| RFMO.4-580-1.1S   | 0.4         | 580            | 1.1            | 524.8           | 1450.0     | 370*165*410    | 39         |
| RFMO.44-450-9.6S  | 0.44        | 450            | 9.6            | 38.6            | 1022.7     | 343*120*180    | 15         |
| RFMO.44-900-9.6S  | 0.44        | 900            | 9.6            | 77.1            | 2045.5     | 390*120*400    | 29         |
| RFMO.5-57-12S     | 0.5         | 57             | 12             | 3.0             | 114.0      | 165*120*140    |            |
| RFMO.5-117-0.05   | 0.5         | 117            | 0.05           | 1490.4          | 234.0      | 440*205*605    | 75         |
| RFMO.5-125-2.5S   | 0.5         | 125            | 2.5            | 31.8            | 250.0      | 200*120*140    | 6          |
| RFMO.5-598-8S     | 0.5         | 598            | 8              | 47.6            | 1196.0     | 343*120*205    | 17         |
| RFMO.55-1090-3.2S | 0.55        | 1090           | 3.2            | 179.3           | 1981.8     | 336*120*330    | 24         |
| RFMO.6-34-1F      | 0.6         | 34             | 1              | 15.0            | 56.7       | 160*120*140    | 6.3        |
| RFMO.6-600-4S     | 0.6         | 600            | 4              | 66.3            | 1000.0     | 370*120*215    | 17         |
| RFMO.6-820-1S     | 0.6         | 820            | 1              | 362.7           | 1366.7     | 361*165*360    | 32         |
| RFMO.6-850-1S     | 0.6         | 850            | 1              | 376.0           | 1416.7     | 361*165*360    | 33         |
| RFMO.6-1130-10S   | 0.6         | 1130           | 10             | 50.0            | 1883.3     | 336*120*220    | 18         |
| RFMO.6-1200-11S   | 0.6         | 1200           | 11             | 48.3            | 2000.0     | 390*120*300    | 26         |
| RFMO.6-1200-2S    | 0.6         | 1200           | 2              | 265.4           | 2000.0     | 390*142*330    | 31         |
| RFMO.6-1200-1S    | 0.6         | 1200           | 1              | 530.8           | 2000.0     | 390*165*480    | 43         |
| RFMO.6-1850-1S    | 0.6         | 1850           | 1              | 818.3           | 3083.3     | 369*170*800    | 77         |
| RFMO.6-2260-10S   | 0.6         | 2260           | 10             | 100.0           | 3766.7     | 390*130*320    | 28         |
| RFMO.625-600-3S   | 0.625       | 600            | 3              | 81.5            | 960.0      | 343*120*265    | 19         |
| RFMO.65-600-3.2S  | 0.65        | 600            | 3.2            | 70.7            | 923.1      | 343*120*240    | 19         |
| RFMO.65-900-30S   | 0.65        | 900            | 30             | 11.3            | 1384.6     | 370*125*250    | 21         |
| RFMO.65-1000-20S  | 0.65        | 1000           | 20             | 18.8            | 1538.5     |                |            |
| RFMO.65-1500-4S   | 0.65        | 1500           | 4              | 141.3           | 2307.7     | 336*142*315    | 25         |
| RFMO.66-3000-1.1S | 0.66        | 3000           | 1.1            | 997.0           | 4545.5     | 559*210*480    | 82         |
| RFMO.66-2000-1.1S | 0.66        | 2000           | 1.1            | 664.6           | 3030.3     | 559*210*345    | 59         |
| RFMO.69-25-0.05   | 0.69        | 25             | 0.05           | 167.2           | 36.2       | 343*135*200    |            |
| RFMO.7-300-3S     | 0.7         | 300            | 3              | 32.5            | 428.6      | 220*120*190    | 9          |
| RFMO.7-300-1.5S   | 0.7         | 300            | 1.5            | 65.0            | 428.6      | 220*142*202    | 11         |
| RFMO.7-600-3S     | 0.7         | 600            | 3              | 65.0            | 857.1      | 303*142*240    | 15         |
| RFMO.7-1000-0.5S  | 0.7         | 1000           | 0.5            | 649.9           | 1428.6     | 390*165*560    | 50         |
| RFMO.7-1000-2.5S  | 0.7         | 1000           | 2.5            | 130.0           | 1428.6     | 343*159*250    | 24         |
| RFMO.7-1800-3.1S  | 0.7         | 1800           | 3.1            | 188.7           | 2571.4     | 336*150*340    | 28         |
| RFMO.7-1200-1S    | 0.7         | 1200           | 1              | 390.0           | 1714.3     | 440*165*435    | 46         |
| RFMO.7-1740-4S    | 0.7         | 1740           | 4              | 141.4           | 2485.7     | 390*125*320    | 27         |
| RFMO.7-2000-3.5S  | 0.7         | 2000           | 3.5            | 185.7           | 2857.1     | 390*142*445    | 36         |
| RFMO.7-2000-1S    | 0.7         | 2000           | 1              | 649.9           | 2857.1     | 440*165*500    | 54         |
| RFMO.75-1000-1S   | 0.75        | 1000           | 1              | 283.1           | 1333.3     | 336*165*320    | 23         |
| RFMO.75-1000-4S   | 0.75        | 1000           | 4              | 70.8            | 1333.3     | 336*142*240    |            |
| RFMO.75-1000-6S   | 0.75        | 1000           | 6              | 47.2            | 1333.3     | 336*142*220    | 16         |
| RFMO.75-1000-8S   | 0.75        | 1000           | 8              | 35.4            | 1333.3     | 336*142*220    | 17         |

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| Part Number        | Voltage(KV) | Capacity(kvar) | Frequency(KHZ) | Capacitance(uf) | Current(A) | Dimensions(mm) | Weight(kg) |
|--------------------|-------------|----------------|----------------|-----------------|------------|----------------|------------|
| RFMO.75-1080-8S    | 0.75        | 1080           | 8              | 38.2            | 1440.0     | 336*142*220    | 17         |
| RFMO.75-1440-10S   | 0.75        | 1440           | 10             | 40.8            | 1920.0     | 370*145*220    | 22         |
| RFMO.75-1500-2.5S  | 0.75        | 1500           | 2.5            | 169.9           | 2000.0     | 336*142*340    | 26         |
| RFMO.75-1500-1S    | 0.75        | 1500           | 1              | 424.6           | 2000.0     | 440*170*350    |            |
| RFMO.75-1700-10S   | 0.75        | 1770           | 10             | 50.1            | 2360.0     | 370*145*250    | 24         |
| RFMO.75-2000-1S    | 0.75        | 2000           | 1              | 566.2           | 2666.7     | 440*170*445    | 50         |
| RFMO.75-2119-6S    | 0.75        | 2119           | 6              | 100.0           | 2825.3     | 559*130*240    | 32         |
| RFMO.75-4000-1S    | 0.75        | 4000           | 1              | 1132.3          | 5333.3     | 559*215*500    | 85         |
| RFMO.8-400-0.05    | 0.8         | 400            | 0.05           | 1990.4          | 500.0      | 440*205*795    | 97         |
| RFMO.8-450-3S      | 0.8         | 450            | 3              | 37.3            | 562.5      | 343*120*190    | 16         |
| RFMO.8-800-9S      | 0.8         | 800            | 9              | 22.1            | 1000.0     | 369*130*210    | 20         |
| RFMO.8-900-3S      | 0.8         | 900            | 3              | 74.6            | 1125.0     | 343*120*250    | 18         |
| RFMO.8-1300-1S     | 0.8         | 1300           | 1              | 323.4           | 1625.0     | 343*170*400    | 42         |
| RFMO.8-1500-3S     | 0.8         | 1500           | 3              | 124.4           | 1875.0     | 343*142*285    | 24         |
| RFMO.8-1500-0.5S   | 0.8         | 1500           | 0.5            | 746.4           | 1875.0     | 343*170*725    | 62         |
| RFMO.8-1500-0.5S   | 0.8         | 1500           | 0.5            | 746.4           | 1875.0     | 343*186*780    | 70         |
| RFMO.8-1500-0.5S   | 0.8         | 1500           | 0.5            | 746.4           | 1875.0     | 390*165*550    | 50         |
| RFMO.8-2120-3S     | 0.8         | 2120           | 3              | 175.8           | 2650.0     | 390*142*345    | 32         |
| RFMO.85-597-1S     | 0.85        | 597            | 1              | 131.6           | 702.4      | 370*165*260    | 26         |
| RFMO.86-1250-4S    | 0.86        | 1250           | 4              | 67.3            | 1453.5     | 336*142*235    |            |
| RFMO.88-1000-6S    | 0.88        | 1000           | 6              | 34.3            | 1136.4     | 330*120*200    | 15         |
| RFMO.88-1000-6S    | 0.88        | 1000           | 6              | 34.3            | 1136.4     | 330*120*340    | 20         |
| RFMO.88-1600-2.52S | 0.88        | 1600           | 2.52           | 130.6           | 1818.2     | 365*142*245    | 22         |
| RFMO.88-1600-2.4S  | 0.88        | 1600           | 2.4            | 137.1           | 1818.2     | 343*160*320    | 28         |
| RFMO.88-1600-1S    | 0.88        | 1600           | 1              | 329.0           | 1818.2     | 343*159*505    | 43         |
| RFMO.88-2400-4S    | 0.88        | 2400           | 4              | 123.4           | 2727.3     | 336*145*400    | 29         |
| RFMO.9-900-1S      | 0.9         | 900            | 1              | 176.9           | 1000.0     | 336*142*235    | 19         |
| RFMO.9-1250-10S    | 0.9         | 1250           | 10             | 24.6            | 1388.9     | 336*120*250    | 19         |
| RFMO.9-1280-0.2S   | 0.9         | 1280           | 0.2            | 1258.2          | 1422.2     | 440*205*710    | 86         |
| RFMO.9-1600-3S     | 0.9         | 1600           | 3              | 104.8           | 1777.8     | 390*120*285    | 24         |
| RFMO.9-1600-2.4S   | 0.9         | 1600           | 2.4            | 131.1           | 1777.8     | 390*142*300    | 30         |
| RFMO.9-2550-5S     | 0.9         | 2550           | 5              | 100.3           | 2833.3     | 390*150*435    | 36         |
| RFMO.9-5100-10S    | 0.9         | 5100           | 10             | 100.3           | 5666.7     | 390*130*395    | 32         |
| RFMO.94-1040-4.4S  | 0.94        | 1040           | 4.4            | 42.6            | 1106.4     | 345*120*210    | 16         |
| RFM1.0-270-0.05F   | 1           | 270            | 0.05           | 859.9           | 270.0      | 440*165*630    | 62         |
| RFM1.0-282-0.05F   | 1           | 282            | 0.05           | 898.1           | 282.0      | 440*165*630    | 62         |
| RFM1.0-900-1.2S    | 1           | 900            | 1.2            | 119.4           | 900.0      | 343*130*330    | 25         |
| RFM1.0-1600-3S     | 1           | 1600           | 3              | 84.9            | 1600.0     | 343*150*250    | 22         |
| RFM1.0-1600-3S     | 1           | 1600           | 3              | 84.9            | 1600.0     | 370*150*390    | 34         |
| RFM1.0-1600-1S     | 1           | 1600           | 1              | 254.8           | 1600.0     | 390*170*330    | 32         |
| RFM1.0-1696-1S     | 1           | 1696           | 1              | 270.1           | 1696.0     | 390*165*360    | 36         |
| RFM1.0-1885-1.5S   | 1           | 1885           | 1.5            | 200.11          | 1885.0     | 343*154*450    | 35         |
| RFM1.0-1885-0.6S   | 1           | 1885           | 0.6            | 500.3           | 1885.0     | 390*165*515    | 45         |
| RFM1.0-2220-4S     | 1           | 2220           | 4              | 88.4            | 2220.0     | 370*165*450    | 38         |
| RFM1.0-2300-3S     | 1           | 2300           | 3              | 122.1           | 2300.0     | 370*150*450    | 36         |
| RFM1.0-2300-1S     | 1           | 2300           | 1              | 366.2           | 2300.0     | 390*170*405    | 37         |
| RFM1.0-2323-1S     | 1           | 2323           | 1              | 369.9           | 2323.0     | 390*165*360    |            |
| RFM1.0-2400-2S     | 1           | 2400           | 2              | 191.1           | 2400.0     | 336*142*355    | 28         |
| RFM1.0-2667-1.5S   | 1           | 2667           | 1.5            | 283.1           | 2667.0     | 390*165*390    | 39         |

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| Part Number        | Voltage(KV) | Capacity(kvar) | Frequency(KHZ) | Capacitance(uf) | Current(A) | Dimensions(mm) | Weight(kg) |
|--------------------|-------------|----------------|----------------|-----------------|------------|----------------|------------|
| RFM1.0-2650-4S     | 1           | 2650           | 4              | 105.5           | 2650.0     | 343*120*330    | 22         |
| RFM1.0-2650-4S     | 1           | 2650           | 4              | 105.5           | 2650.0     | 390*125*340    |            |
| RFM1.0-2650-4S     | 1           | 2650           | 4              | 105.5           | 2650.0     | 369*165*300    | 28         |
| RFM1.0-2650-3S     | 1           | 2650           | 3              | 140.7           | 2650.0     | 370*165*450    | 39         |
| RFM1.0-2650-3S     | 1           | 2650           | 3              | 140.7           | 2650.0     | 370*165*450    | 40         |
| RFM1.1-1000-0.5S   | 1.1         | 1000           | 0.5            | 263.2           | 909.1      | 390*165*350    | 32         |
| RFM1.1-2160-0.6S   | 1.1         | 2160           | 0.6            | 473.8           | 1963.6     | 390*165*480    | 42         |
| RFM1.1-2400-1.1S   | 1.1         | 2400           | 1.1            | 287.1           | 2181.8     | 390*165*425    | 41         |
| RFM1.1-2500-0.5S   | 1.1         | 2500           | 0.5            | 658.0           | 2272.7     | 390*165*650    | 57         |
| RFM1.1-3200-3S     | 1.1         | 3200           | 3              | 140.4           | 2909.1     | 336*142*355    | 28         |
| RFM1.1-4410-1S     | 1.1         | 4410           | 1              | 580.4           | 4009.1     | 440*205*475    | 62         |
| RFM1.11-306-3S     | 1.11        | 306            | 3              | 13.2            | 275.7      | 200*120*140    | 7.5        |
| RFM1.117-460-3S    | 1.177       | 460            | 3              | 17.6            | 390.8      | 354*142*300    | 21         |
| RFM1.175-3750-2.7S | 1.175       | 3750           | 2.7            | 160.2           | 3191.5     | 343*142*315    | 24         |
| RFM1.2-96-5.3F     | 1.2         | 96             | 5.3            | 2.0             | 80.0       | 120*105*100    | 3.5        |
| RFM1.2-200-0.5F    | 1.2         | 200            | 0.5            | 44.2            | 166.7      | 310*140*200    | 15         |
| RFM1.2-283-2S      | 1.2         | 283            | 2              | 15.6            | 235.8      | 200*120*140    | 8          |
| RFM1.2-408-0.07F   | 1.2         | 408            | 0.07           | 644.5           | 340.0      | 345*165*810    | 62         |
| RFM1.2-600-1.5S    | 1.2         | 600            | 1.5            | 44.2            | 500.0      | 336*142*185    | 15         |
| RFM1.2-800-2S      | 1.2         | 800            | 2              | 44.2            | 666.7      | 336*142*185    | 15         |
| RFM1.2-1000-1S     | 1.2         | 1000           | 1              | 110.6           | 833.3      | 336*142*290    | 17         |
| RAM1.2-2000-0.25S  | 1.2         | 2000           | 0.25           | 884.6           | 1666.7     | 440*205*710    | 84         |
| RAM1.25-750-0.25S  | 1.2         | 750            | 0.25           | 331.7           | 625.0      | 343*165*470    | 37         |
| RFM1.2-1200-1.2S   | 1.2         | 1200           | 1.2            | 110.6           | 1000.0     | 336*165*250    | 23         |
| RFM1.2-1250-3S     | 1.2         | 1250           | 3              | 46.1            | 1041.7     | 340*150*290    | 24         |
| RFM1.2-1500-1.2S   | 1.2         | 1500           | 1.2            | 138.2           | 1250.0     | 336*142*340    |            |
| RFM1.2-1500-1S     | 1.2         | 1500           | 1              | 165.9           | 1250.0     | 336*165*320    | 26         |
| RFM1.2-1500-1S     | 1.2         | 1500           | 1              | 165.9           | 1250.0     | 336*142*240    | 19         |
| RFM1.2-1600-0.75S  | 1.2         | 1600           | 0.75           | 235.9           | 1333.3     | 340*150*590    | 45         |
| RFM1.2-2700-12S    | 1.2         | 2700           | 12             | 24.9            | 2250.0     | 343*120*315    | 23         |
| RFM1.2-2000-1S     | 1.2         | 2000           | 1              | 221.2           | 1666.7     | 336*165*340    | 29         |
| RFM1.2-2000-1S     | 1.2         | 2000           | 1              | 221.2           | 1666.7     | 440*165*285    | 29         |
| RFM1.2-2000-0.5S   | 1.2         | 2000           | 0.5            | 442.3           | 1666.7     | 390*165*520    | 46         |
| RFM1.2-2000-0.5S   | 1.2         | 2000           | 0.5            | 442.3           | 1666.7     | 365*165*650    | 55         |
| RFM1.2-2750-2.5S   | 1.2         | 2750           | 2.5            | 121.6           | 2291.7     | 342*150*400    | 31         |
| RFM1.2-3000-1S     | 1.2         | 3000           | 1              | 331.7           | 2500.0     | 370*165*710    | 60         |
| RAM1.25-825-0.2S   | 1.25        | 825            | 0.2            | 420.4           | 660.0      | 390*165*440    | 40         |
| RFM1.25-1200-1.2S  | 1.2         | 1200           | 1.2            | 110.6           | 1000.0     | 336*142*235    |            |
| RFM1.25-1200-3S    | 1.25        | 1200           | 3              | 40.8            | 960.0      | 336*142*220    | 18         |
| RFM1.25-1000-0.5S  | 1.25        | 1000           | 0.5            | 203.8           | 800.0      | 390*165*285    | 26         |
| RFM1.25-1200-0.7S  | 1.25        | 1200           | 0.7            | 174.7           | 960.0      | 340*142*345    | 26         |
| RFM1.25-1400-1S    | 1.25        | 1400           | 1              | 142.68          | 1120.0     | 343*154*450    | 33         |
| RFM1.25-1472-2S    | 1.25        | 1472           | 2              | 75.01           | 1177.6     | 343*154*330    | 27         |
| RFM1.25-1472-3S    | 1.25        | 1472           | 3              | 50.00           | 1177.6     | 343*154*330    | 26         |
| RFM1.25-1472-5S    | 1.25        | 1472           | 5              | 30.00           | 1177.6     | 343*154*330    | 27         |
| RFM1.25-1452-2S    | 1.25        | 1452           | 2              | 74.0            | 1161.6     | 343*142*245    | 21         |
| RFM1.25-1452-2S    | 1.25        | 1452           | 2              | 74.0            | 1161.6     | 343*155*300    | 24         |
| RFM1.25-1472-0.5S  | 1.25        | 1472           | 0.5            | 300.03          | 1177.6     | 343*154*500    | 39         |
| RFM1.25-1500-0.5S  | 1.25        | 1500           | 0.5            | 305.7           | 1200.0     | 390*165*390    | 34         |
| RFM1.25-1520-5S    | 1.25        | 1520           | 5              | 31.0            | 1216.0     | 343*120*220    | 16.5       |

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| Part Number        | Voltage(KV) | Capacity(kvar) | Frequency(KHZ) | Capacitance(uf) | Current(A) | Dimensions(m) | Weight(kg) |
|--------------------|-------------|----------------|----------------|-----------------|------------|---------------|------------|
| RFM1.25-2000-0.5S  | 1.25        | 2000           | 0.5            | 407.6           | 1600.0     | 390*165*500   | 45         |
| RFM1.25-2000-0.5S  | 1.25        | 2000           | 0.5            | 407.6           | 1600.0     | 390*165*495   | 44         |
| RFM1.25-2178-2S    | 1.25        | 2178           | 2              | 111.0           | 1742.4     | 343*142*325   | 26         |
| RFM1.25-2178-2S    | 1.25        | 2178           | 2              | 111.0           | 1742.4     | 367*165*397   | 34         |
| RFM1.25-2705-0.55S | 1.25        | 2705           | 0.55           | 501.2           | 2164.0     | 343*165*600   | 48         |
| RFM1.25-2207-5S    | 1.25        | 2207           | 5              | 45.0            | 1765.6     | 367*165*325   | 28         |
| RFM1.25-2207-5S    | 1.25        | 2207           | 5              | 45.0            | 1765.6     | 343*120*420   | 27         |
| RFM1.25-2250-16S   | 1.25        | 2250           | 16             | 14.3            | 1800.0     | 343*120*215   | 16         |
| RFM1.25-2750-1S    | 1.25        | 2750           | 1              | 280.3           | 2200.0     | 440*170*395   |            |
| RFM1.25-2000-0.25S | 1.25        | 2000           | 1.25           | 163.1           | 1600.0     | 390*165*1000  | 85         |
| RAM1.25-2650-0.2S  | 1.25        | 2650           | 0.25           | 1080.3          | 2120.0     | 390*165*1000  | 88         |
| RAM1.3-883-0.08AF  | 1.3         | 883            | 0.08           | 1040.0          | 679.2      | 440*205*810   | 95         |
| RFM1.3-2500-0.6S   | 1.3         | 2500           | 0.6            | 392.6           | 1923.1     | 390*165*600   | 51         |
| RFM1.3-3000-1S     | 1.3         | 3000           | 1              | 282.7           | 2307.7     | 440*165*420   | 45         |
| RFM1.3-3200-1.1S   | 1.3         | 3200           | 1.1            | 274.1           | 2461.5     | 390*170*475   | 45         |
| RFM1.3-4700-1S     | 1.3         | 4700           | 1              | 442.8           | 3615.4     | 559*170*440   | 60         |
| RAM1.3-6150-1S     | 1.3         | 6150           | 1              | 579.5           | 4730.8     | 440*205*680   | 70         |
| RFM1.325-1348-3S   | 1.325       | 1348           | 3              | 40.8            | 1017.4     | 343*120*270   | 20         |
| RFM1.375-3350-3.2S | 1.375       | 3350           | 3.2            | 88.2            | 2436.4     | 343*150*343   | 28         |
| RAM1.4-7150-1S     | 1.4         | 7150           | 1              | 580.9           | 5107.1     | 559*210*495   | 82         |
| RFM1.45-549-0.05   | 1.45        | 549            | 0.05           | 831.6           | 378.6      | 440*205*640   | 74         |
| RFM1.45-550-0.05   | 1.45        | 550            | 0.05           | 833.1           | 379.3      | 440*205*640   | 75         |
| RFM1.45-1320-0.5   | 1.45        | 1320           | 0.5            | 199.9           | 910.3      | 369*165*500   | 42         |
| RFM1.45-1982-0.5S  | 1.45        | 1982           | 0.5            | 300.2           | 1366.9     | 343*154*590   | 46         |
| RFM1.5-1500-2.5S   | 1.5         | 1500           | 2.5            | 42.5            | 1000.0     | 350*142*350   | 27         |
| RFM1.5-1500-1S     | 1.5         | 1500           | 1              | 106.2           | 1000.0     | 336*165*300   | 26         |
| RFM1.5-1500-1.2S   | 1.5         | 1500           | 1.2            | 88.5            | 1000.0     | 336*142*340   |            |
| RFM1.5-1500-0.5S   | 1.5         | 1500           | 0.5            | 212.3           | 1000.0     | 390*165*395   | 34         |
| RFM1.5-1750-0.5S   | 1.5         | 1750           | 0.5            | 247.7           | 1166.7     | 390*165*445   | 39         |
| RFM1.5-2000-1S     | 1.5         | 2000           | 1              | 141.5           | 1333.3     | 370*165*460   |            |
| RFM1.5-2100-1S     | 1.5         | 2100           | 1              | 148.6           | 1400.0     | 440*165*380   | 40         |
| RFM1.5-2333-3S     | 1.5         | 2333           | 3              | 55.0            | 1555.3     | 336*142*325   | 26         |
| RFM1.5-2333-3S     | 1.5         | 2333           | 3              | 55.0            | 1555.3     | 343*120*330   | 24         |
| RFM1.5-2333-3S     | 1.5         | 2333           | 3              | 55.0            | 1555.3     | 343*142*330   | 26         |
| RFM1.5-2500-1.2S   | 1.5         | 2500           | 1.2            | 147.4           | 1666.7     | 343*165*390   | 34         |
| RFM1.5-2500-1S     | 1.5         | 2500           | 1              | 176.9           | 1666.7     | 340*170*440   |            |
| RFM1.5-2830-3.2S   | 1.5         | 2830           | 3.2            | 62.6            | 1886.7     | 345*135*345   | 26         |
| RFM1.5-3000-1.2S   | 1.5         | 3000           | 1.2            | 176.9           | 2000.0     | 343*160*445   |            |
| RFM1.5-3000-1S     | 1.5         | 3000           | 1              | 212.3           | 2000.0     | 440*165*440   | 40         |
| RFM1.5-3025-1S     | 1.5         | 3025           | 1              | 214.1           | 2016.7     | 350*170*500   | 42         |
| RFM1.5-3025-1S     | 1.5         | 3025           | 1              | 214.1           | 2016.7     | 350*170*620   | 49         |
| RFM1.5-3200-1S     | 1.5         | 3200           | 1              | 226.5           | 2133.3     | 390*170*480   | 42         |
| RFM1.5-3800-1.5S   | 1.5         | 3800           | 1.5            | 179.3           | 2533.3     | 390*170*460   | 42         |
| RFM1.5-4239-1.2S   | 1.5         | 4239           | 1.2            | 250.0           | 2826.0     | 559*170*435   | 58         |
| RFM1.5-5087-1.2S   | 1.5         | 5087           | 1.2            | 300.0           | 3391.3     | 559*170*500   | 60         |
| RFM1.5-7200-1.2S   | 1.5         | 7200           | 1.2            | 424.6           | 4800.0     | 559*170*600   | 80         |
| RFM1.6-262-2.4S    | 1.6         | 262            | 2.4            | 6.8             | 163.8      | 260*120*180   | 11         |
| RFM1.6-1600-1.2S   | 1.6         | 1600           | 1.2            | 82.9            | 1000.0     | 390*142*340   | 27         |
| RAM1.6-2000-0.5S   | 1.6         | 2000           | 0.5            | 248.8           | 1250.0     | 390*165*425   | 38         |
| RAM1.6-2260-0.5    | 1.6         | 2260           | 0.5            | 281.2           | 1412.5     | 390*205*410   | 37         |

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# Power Capacitor

## Product list

| Part Number        | Voltage(KV) | Capacity(kvar) | Frequency(KHZ) | Capacitance(uf) | Current(A) | Dimensions (mm) | Weight(kg) |
|--------------------|-------------|----------------|----------------|-----------------|------------|-----------------|------------|
| RAM1.6-2276-1S     | 1.6         | 2276           | 1              | 141.6           | 1422.5     | 390*165*330     | 33         |
| RAM1.6-2500-0.5S   | 1.6         | 2500           | 0.5            | 311.0           | 1562.5     | 343*210*570     | 55         |
| RFM1.65-2420-1.2S  | 1.65        | 2420           | 1.2            | 118.0           | 1466.7     | 336*142*385     | 28         |
| RAM1.6-9340-1S     | 1.6         | 9340           | 1              | 581.0           | 5837.5     | 559*210*595     | 96         |
| RAM1.7-1500-0.25   | 1.7         | 1500           | 0.25           | 330.6           | 882.4      | 390*165*570     | 49         |
| RAM1.7-1500-0.25   | 1.7         | 1500           | 0.25           | 330.6           | 882.4      | 355*200*745     | 61         |
| RAM1.7-1500-0.25   | 1.7         | 1500           | 0.25           | 330.6           | 882.4      | 390*205*615     | 43         |
| RAM1.7-2260-0.5S   | 1.7         | 2260           | 0.5            | 249.0           | 1329.4     | 390*165*430     | 38         |
| RAM1.7-2260-0.5S   | 1.7         | 2260           | 0.5            | 249.0           | 1329.4     | 390*165*490     | 43         |
| RAM1.7-2260-0.5S   | 1.7         | 2260           | 0.5            | 249.0           | 1329.4     | 390*165*490     | 48         |
| RAM1.7-3000-0.5S   | 1.7         | 3000           | 0.5            | 330.6           | 1764.7     | 390*165*570     | 61         |
| RFM1.7-3000-0.5S   | 1.7         | 3000           | 0.5            | 330.6           | 1764.7     | 440*205*600     | 87         |
| RAM1.7-3000-0.25S  | 1.7         | 3000           | 0.25           | 66.12           | 1764.7     | 440*245*610     | 87         |
| RAM1.7-4196-0.35S  | 1.7         | 4196           | 0.35           | 660.56          | 2468.2     | 440*205*760     | 87         |
| RAM1.7-4800-0.4S   | 1.7         | 4800           | 0.4            | 661.19          | 2823.5     | 440*205*760     | 87         |
| RFM1.8-1800-1.2S   | 1.8         | 1800           | 1.2            | 73.7            | 1000.0     | 336*142*280     | 26         |
| RAM1.8-2140-1.2S   | 1.8         | 2140           | 1.2            | 87.6            | 1188.9     | 336*142*345     | 26         |
| RAM1.8-2140-1.2S   | 1.8         | 2140           | 1.2            | 87.6            | 1188.9     | 560*160*295     | 26         |
| RAM1.8-2150-1.2S   | 1.8         | 2150           | 1.2            | 88.1            | 1194.4     | 336*150*355     | 29.5       |
| RFM1.8-2400-1.2S   | 1.8         | 2400           | 1.2            | 98.3            | 1333.3     | 343*170*355     | 29.5       |
| RFM1.8-2400-1.2SB  | 1.8         | 2400           | 1.2            | 98.3            | 1333.3     | 343*170*355     | 29.5       |
| RAM1.8-3200-0.5S   | 1.8         | 3200           | 0.5            | 314.5           | 1777.8     | 390*165*605     | 51         |
| RAM1.8-3500-0.5S   | 1.8         | 3500           | 0.5            | 344.0           | 1944.4     | 390*205*560     | 57         |
| RFM1.8-3600-1S     | 1.8         | 3600           | 1              | 176.9           | 2000.0     | 390*205*405     | 45         |
| RAM1.8-4229-1.2S   | 1.8         | 4229           | 1.2            | 173.2           | 2349.4     | 440*170*390     | 44         |
| RAM1.8-4320-1S     | 1.8         | 4320           | 1              | 212.3           | 2400.0     | 345*170*520     | 87         |
| RAM1.8-4704-0.35S  | 1.8         | 4704           | 0.35           | 660.53          | 2613.3     | 440*205*760     | 87         |
| RAM1.8-5370-0.4S   | 1.8         | 5370           | 0.4            | 659.80          | 2983.3     | 440*205*760     | 87         |
| RAM1.89-4763-1.2S  | 1.89        | 4763           | 1.2            | 176.9           | 2520.1     | 559*191*340     | 51         |
| RAM1.89-4763-1.2S  | 1.89        | 4763           | 1.2            | 176.9           | 2520.1     | 559*200*340     | 51         |
| RAM1.89-4763-1.2S  | 1.89        | 4763           | 1.2            | 176.9           | 2520.1     | 559*191*500     | 27         |
| RFM1.95-535-0.463S | 1.95        | 535            | 0.463          | 48.4            | 274.4      | 343*150*360     | 25         |
| RFM1.95-535-0.463S | 1.95        | 535            | 0.463          | 48.4            | 274.4      | 360*150*290     | 34         |
| RFM2.0-2.7S        | 2           |                | 2.7            | 160.0           | 660.0      | 390*142*430     | 66         |
| RAM2.0-755-0.06    | 2           | 755            | 0.06           | 500.9           | 377.5      | 440*205*590     | 36         |
| RAM2.0-1000-0.3S   | 2           | 1000           | 0.3            | 132.7           | 500.0      | 390*165*355     | 31         |
| RFM2.0-1320-2.7S   | 2           | 1320           | 2.7            | 19.5            | 660.0      | 343*142*185     | 16         |
| RAM2.0-2100-1.2S   | 2           | 2100           | 1.2            | 69.7            | 1050.0     | 336*165*310     | 26         |
| RFM2.0-3000-6S     | 2           | 3000           | 6              | 19.9            | 1500.0     | 343*120*355     | 24         |
| RFM2.0-3016-30S    | 2           | 3016           | 30             | 4.0             | 1508.0     | 342*130*387     | 28         |
| RAM2.0-3200-0.5S   | 2           | 3200           | 0.5            | 254.8           | 1600.0     | 390*165*490     | 47         |
| RAM2.0-3200-0.5S   | 2           | 3200           | 0.5            | 254.8           | 1600.0     | 390*165*560     | 49         |
| RFM2.0-3272-0.6S   | 2           | 3272           | 0.6            | 217.1           | 1636.0     | 390*165*580     | 47         |
| RAM2-4000-0.25/A   | 2           | 4000           | 0.25           | 636.9           | 2000.0     | 440*245*725     | 122        |
| RAM2-4000-0.25/B   | 2           | 4000           | 0.25           | 636.9           | 2000.0     | 440*245*725     | 122        |
| RAM2.0-8400-0.5S   | 2           | 8400           | 0.5            | 668.8           | 4200.0     | 559*210*890     | 123        |
| RAM2.0-8500-0.5S   | 2           | 8500           | 0.5            | 676.8           | 4250.0     | 559*210*890     | 123        |
| RAM2.2-1650-0.3S   | 2.2         | 1650           | 0.3            | 180.9           | 750.0      | 390*165*440     | 37         |
| RAM2.2-2500-0.25S  | 2.2         | 2500           | 0.25           | 329.0           | 1136.4     | 390*204*615     | 62         |
| RAM2.2-3200-1S     | 2.2         | 3200           | 1              | 105.3           | 1454.5     | 390*170*375     | 36         |

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| Part Number       | Voltage(KV) | Capacity (kvar) | Frequency(KHZ) | Capacitance(uf) | Current(A) | Dimensions (mm) | Weight(kg) |
|-------------------|-------------|-----------------|----------------|-----------------|------------|-----------------|------------|
| RAM2.2-4000-0.3S  | 2.2         | 4000            | 0.3            | 438.7           | 1818.2     | 440*205*600     | 66         |
| RAM2.2-8000-0.7S  | 2.2         | 8000            | 0.7            | 376.0           | 3636.4     | 559*210*535     | 83         |
| RAM2.4-4760-0.3S  | 2.4         | 4760            | 0.3            | 438.6           | 1983.3     | 559*210*705     | 108        |
| RAM2.5-2200-0.25S | 2.5         | 2200            | 0.25           | 224.2           | 880.0      | 390*165*680     | 56         |
| RAM2.5-6029-3.2S  | 2.5         | 6029            | 3.2            | 48.0            | 2411.6     | 390*150*405     |            |
| RFM2.5-7536-3.2S  | 2.5         | 7536            | 3.2            | 60.0            | 3014.4     | 390*150*580     |            |
| RAM2.8-4800-0.4   | 2.8         | 4800            | 0.4            | 243.7           | 1714.3     | 390*205*600     |            |
| RAM2.85-7216-0.7S | 2.85        | 7216            | 0.7            | 202.1           | 2531.9     | 559*213*790     | 117        |
| RAM2.85-7216-0.7S | 2.85        | 7216            | 0.7            | 202.1           | 2531.9     | 559*213*610     | 94         |
| RFM3.0-116-1.2AF  | 3           | 116             | 1.2            | 1.7             | 38.7       | 200*90*130      | 5          |
| RFM3.0-119-1.2S   | 3           | 119             | 1.2            | 1.8             | 39.7       | 215*155*185     | 9.5        |
| RFM3.0-120-0.7    | 3           | 120             | 0.7            | 3.0             | 40.0       | 160*120*140     |            |
| RAM3.0-1500-0.6S  | 3           | 1500            | 0.6            | 44.2            | 500.0      | 336*170*280     | 24         |
| RAM3.0-2000-0.7S  | 3           | 2000            | 0.7            | 50.6            | 666.7      | 345*156*355     | 45         |
| RAM3.0-2000-0.7S  | 3           | 2000            | 0.7            | 50.6            | 666.7      | 345*156*630     | 45         |
| RAM3.0-2400-0.7S  | 3           | 2400            | 0.7            | 60.7            | 800.0      | 343*210*300     | 30         |
| RAM3.0-2400-1.2S  | 3           | 2400            | 1.2            | 35.4            | 800.0      | 343*210*265     | 26         |
| RAM3.0-2400-1.2S  | 3           | 2400            | 1.2            | 35.4            | 800.0      | 343*210*570     | 48         |
| RAM3.0-2400-1.2S  | 3           | 2400            | 1.2            | 35.4            | 800.0      | 343*152*380     | 30         |
| RAM3.0-2400-1.2S  | 3           | 2400            | 1.2            | 35.4            | 800.0      | 343*150*455     | 32         |
| RAM3.0-3165-0.7S  | 3           | 3165            | 0.7            | 80.0            | 1055.0     | 367*170*420     | 36         |
| RFM3.0-3400-1.25S | 3           | 3400            | 1.25           | 48.1            | 1133.3     | 336*165*360     | 28         |
| RFM3.0-3400-1.2S  | 3           | 3400            | 1.2            | 50.1            | 1133.3     | 336*165*375     | 30         |
| RAM3.0-4200-0.7S  | 3           | 4200            | 0.7            | 106.2           | 1400.0     | 440*210*440     | 53         |
| RAM3.0-5400-0.7S  | 3           | 5400            | 0.7            | 136.5           | 1800.0     | 440*210*500     | 61         |
| RAM3.0-5450-0.7S  | 3           | 5450            | 0.7            | 137.8           | 1816.7     | 367*155*740     | 54         |
| RAM3.0-5450-0.7S  | 3           | 5450            | 0.7            | 137.8           | 1816.7     | 390*170*545     | 48         |
| RAM3.0-5450-0.7S  | 3           | 5450            | 0.7            | 137.8           | 1816.7     | 440*170*520     | 52         |
| RAM3.0-5450-0.5S  | 3           | 5450            | 0.5            | 192.9           | 1816.7     | 440*165*615     |            |
| RAM3.0-5550-0.7S  | 3           | 5550            | 0.7            | 140.3           | 1850.0     | 440*210*500     | 62         |
| RAM3.0-6783-1.2S  | 3           | 6783            | 1.2            | 100.0           | 2261.0     | 390*170*475     |            |
| RAM3.0-6783-1.2S  | 3           | 6783            | 1.2            | 100.0           | 2261.0     | 559*170*410     | 52         |
| RAM3.0-6900-1.2S  | 3           | 6900            | 1.2            | 101.7           | 2300.0     | 343*150*710     | 63         |
| RAM3.0-6920-1.2S  | 3           | 6920            | 1.2            | 102.0           | 2306.7     | 343*150*710     | 63         |
| RAM3.0-6963-0.7S  | 3           | 6963            | 0.7            | 176.0           | 2321.0     | 390*210*600     |            |
| RAM3.0-13400-1.2S | 3           | 13400           | 1.2            | 197.6           | 4466.7     | 559*170*720     | 85         |
| RAM3.0-13400-1.2S | 3           | 13400           | 1.2            | 197.6           | 4466.7     | 559*191*711     | 102        |
| RAM3.0-13400-12S  | 3           | 13400           | 12             | 197.6           | 4466.7     | 559*130*720     | 74         |
| RAM3.0-8400-0.7S  | 3           | 8400            | 0.7            | 212.3           | 2800.0     | 559*191*710     | 96         |
| RAM3.0-8400-0.7S  | 3           | 8400            | 0.7            | 212.3           | 2800.0     | 559*191*710     | 97         |
| RAM3.0-13565-1.2S | 3           | 13565           | 1.2            | 200.0           | 4521.7     | 559*170*625     | 76         |
| RAM3.0-13565-1.2S | 3           | 13565           | 1.2            | 200.0           | 4521.7     | 559*200*780     | 104        |
| RAM3.05-5400-0.7S | 3.05        | 5400            | 0.7            | 132.0           | 1770.5     | 440*210*475     | 57         |
| RAM3.05-8682-0.7S | 3.05        | 8682            | 0.7            | 212.3           | 2846.6     | 440*205*655     |            |
| RAM3.05-8682-0.7S | 3.05        | 8682            | 0.7            | 212.3           | 2846.6     | 559*191*710     | 95         |
| RAM3.08-4840-0.3S | 3.08        | 4840            | 0.3            | 270.8           | 1571.4     | 440*205*635     |            |
| RAM3.08-4840-0.3S | 3.08        | 4840            | 0.3            | 270.8           | 1571.4     | 560*204*715     |            |
| RFM3.1-754-20S    | 3.1         | 754             | 20             | 0.6             | 243.2      | 303*120*170     | 10         |
| RAM3.2-4000-0.5S  | 3.2         | 4000            | 0.5            | 124.4           | 1250.0     | 390-165-550     | 45         |
| RAM3.2-4500-0.5S  | 3.2         | 4500            | 0.5            | 140.0           | 1406.3     | 390*165*595     | 47         |
| RAM3.2-4500-0.5S  | 3.2         | 4500            | 0.5            | 140.0           | 1406.3     | 500*165*765     | 75         |

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# Power Capacitor

## Product list

| Part Number       | Voltage(KV) | Capacity(kvar) | Frequency(KHZ) | Capacitance(uf) | Current(A) | Dimensions(mm) | Weight(kg) |
|-------------------|-------------|----------------|----------------|-----------------|------------|----------------|------------|
| RAM3.3-5455-0.6S  | 3.3         | 5455           | 0.6            | 132.9           | 1653.0     | 559*191*590    | 79         |
| RAM3.3-5455-0.6S  | 3.3         | 5455           | 0.6            | 132.9           | 1653.0     | 559*191*720    | 93         |
| RAM3.3-6350-0.7S  | 3.3         | 6350           | 0.7            | 132.6           | 1924.2     | 559*210*500    | 79         |
| RAM3.4-4000-0.5S  | 3.4         | 4000           | 0.5            | 110.2           | 1176.5     | 390*205*600    | 62         |
| RFM3.5-1000-20S   | 3.5         | 1000           | 20             | 0.6             | 285.7      | 220*120*140    | 7          |
| RAM3.6-3200-0.7S  | 3.6         | 3200           | 0.7            | 56.2            | 888.9      | 440*170*475    | 48         |
| RAM3.6-3000-0.5S  | 3.6         | 3000           | 0.5            | 73.7            | 833.3      | 390*205*425    | 45         |
| RAM3.6-3000-0.5S  | 3.6         | 3000           | 0.5            | 73.7            | 833.3      | 390*205*515    | 53         |
| RAM3.6-3200-0.5S  | 3.6         | 3200           | 0.5            | 78.6            | 888.9      | 390*205*495    | 60         |
| RAM3.6-3127-0.5S  | 3.6         | 3127           | 0.5            | 76.8            | 868.6      | 390*205*445    | 47         |
| RAM3.6-3000-0.7S  | 3.6         | 3000           | 0.7            | 52.7            | 833.3      | 440*175*415    |            |
| RAM3.6-8000-0.5S  | 3.6         | 8000           | 0.5            | 196.6           | 2222.2     | 440*205*895    |            |
| RFM4.0-700-35F    | 4           | 700            | 35             | 0.2             | 175.0      | 303*120*175    | 10         |
| RFM4.0-2900-30AF  | 4           | 2900           | 30             | 1.0             | 725.0      | 336*120*320    | 21         |
| RAM4.0-6000-0.5S  | 4           | 6000           | 0.5            | 119.4           | 1500.0     | 559*205*550    | 79         |
| RAM4.0-6000-0.5S  | 4           | 6000           | 0.5            | 119.4           | 1500.0     | 330*320*560    | 75         |
| RAM4.0-6250-0.6S  | 4           | 6250           | 0.6            | 103.7           | 1562.5     | 559*205*515    | 75         |
| RAM4.0-6300-0.6S  | 4           | 6300           | 0.6            | 104.5           | 1575.0     | 440*175*700    | 72         |
| RAM4.0-6333-0.6S  | 4           | 6333           | 0.6            | 105.0           | 1583.3     | 440*175*700    | 72         |
| RAM4.0-6333-0.75S | 4           | 6333           | 0.75           | 84.0            | 1583.3     | 559*210*440    |            |
| RAM4.0-6333-0.7S  | 4           | 6333           | 0.7            | 90.0            | 1583.3     | 440*175*620    | 61         |
| BAM3.3-200-3      | 3.3         | 200            | 0.05           | 58.5            | 60.6       | 336*165*430    |            |
| RAM3.4-5450-0.7S  | 3.4         | 5450           | 0.7            | 107.2           | 1602.9     | 440*180*650    |            |
| RFM4.0-694-23S    | 4           | 694            | 23             | 0.3             | 173.5      | 255*90*135     | 7          |
| RAM4.4-6333-0.6S  | 4.4         | 6333           | 0.6            | 86.8            | 1439.3     | 440*175*610    | 60         |
| RAM4.4-7260-0.7S  | 4.4         | 7260           | 0.7            | 85.3            | 1650.0     | 440*175*690    | 67         |
| RAM4.4-7260-0.6S  | 4.4         | 7260           | 0.6            | 99.5            | 1650.0     | 440*205*675    |            |
| RAM4.4-7260-0.6S  | 4.4         | 7260           | 0.6            | 99.5            | 1650.0     | 440*175*790    | 76         |
| RAM4.4-7260-0.6S  | 4.4         | 7260           | 0.6            | 99.5            | 1650.0     | 559*191*880    | 111        |
| RAM4.4-7260-0.6S  | 4.4         | 7260           | 0.6            | 99.5            | 1650.0     | 559*191*690    | 90         |
| RAM4.4-8470-0.6S  | 4.4         | 8470           | 0.7            | 99.5            | 1925.0     | 440*205*675    |            |
| RAM4.4-8470-0.7S  | 4.4         | 8470           | 7.75           | 9.0             | 1925.0     | 390*130*435    |            |
| RAM4.6-7000-0.6S  | 4.6         | 7000           | 0.6            | 87.8            | 1521.7     | 390*205*735    | 72         |
| RAM5.5-5000-0.25S | 5.5         | 5000           | 0.25           | 105.3           | 909.1      | 440*205*840    | 95         |
| 440/320/15-DR     | 0.44        | 320            | 0.05           | 5264.0          | 727.3      | 440*130*600    |            |
| 880/400/15-DR     | 0.88        | 400            | 0.05           | 1645.0          | 454.5      | 440*130*460    |            |
| RAM2.0-2000-0.7S  | 2           | 2000           | 0.7            | 113.7           | 1000.0     | 390*170*360    | 34         |
| RAM4.0-10000-0.5S | 4           | 10000          | 0.5            | 199.0           | 2500.0     | 559*205*875    | 124        |
| RFM2.0-300-0.7S   | 2           | 300            | 0.7            | 17.1            | 150.0      | 255*142*140    | 9          |
| RAM3.0-5450-0.7S  | 3           | 5450           | 0.7            | 137.8           | 1816.7     | 330*210*640    | 55         |
| RAM3.6-6000-0.5S  | 3.6         | 6000           | 0.5            | 147.4           | 1666.7     | 330*290*850    | 105        |
| RAM3.6-3000-0.5S  | 3.6         | 3000           | 0.5            | 73.7            | 833.3      | 330*210*530    | 54         |
| RAM4.0-3000-0.5S  | 4           | 3000           | 0.5            | 59.7            | 750.0      | 330*210*500    | 46         |
| RAM4.0-3000-0.4S  | 4           | 3000           | 0.4            | 74.6            | 750.0      | 330*210*625    | 59         |
| RAM4.0-7500-0.4   | 4           | 7500           | 0.4            | 186.6           | 1875.0     | 330*340*895    | 127        |
| RAM4.0-7500-0.4S  | 4           | 7500           | 0.4            | 186.6           | 1875.0     | 330*340*800    | 115        |
| RAM4.0-7500-0.5S  | 4           | 7500           | 0.5            | 149.3           | 1875.0     | 330*340*740    | 105        |
| RAM6.0-6000-0.3S  | 6           | 6000           | 0.3            | 88.5            | 1000.0     | 330*390*720    | 114        |
| RAM6.0-4000-0.3S  | 6           | 4000           | 0.3            | 59.0            | 666.7      | 330*390*510    | 80         |
| RAM5.0-8000-0.4S  | 5           | 8000           | 0.4            | 127.4           | 1600.0     | 330*390*825    | 128        |
| RAM5.0-6000-0.4S  | 5           | 6000           | 0.4            | 95.5            | 1200.0     | 330*390*635    | 101        |
| DCS.0-30uf        | 5           |                |                |                 |            | 336*142*340    |            |
| DCFM0.9-100S      | 0.9         |                |                | 100.0           | 0.0        | 343*165*155    | 15         |

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| Part Number    | Voltage(KV) | Capacity(kvar) | Frequency(KHZ) | Capacitance(uf) | Current(A) | Dimensions(mm) | Weight(kg) |
|----------------|-------------|----------------|----------------|-----------------|------------|----------------|------------|
| DCFM0.9-200S   | 0.9         |                |                | 200.0           | 0.0        | 343*165*250    | 21         |
| DCFM0.7-300    | 0.7         |                |                | 300.0           |            | 343*160*260    | 20         |
| DCMJ0.75-400S  | 0.75        |                |                | 400.00          |            | 340*120*280    |            |
| DCMJ0.7-600S   | 0.7         |                |                | 600.00          |            | 343*135*500    |            |
| DCFM2.5-8uf    | 2.5         |                |                | 8.00            |            | 120*80*160     |            |
| DCMJ0.7-2700S  | 0.7         |                |                | 2700.00         |            | 390*135*420    | 38         |
| DCMJ0.7-600S   | 0.7         |                |                | 600.00          |            | 343*135*575    | 分4组        |
| DCMJ1.2-750S   | 1.2         |                |                | 1500.00         |            |                |            |
| DCMJ0.8-1000S  | 0.8         |                |                | 1000.0          |            | 340*135*330    |            |
| DCMJ1.0-9-776S | 0.9         |                |                | 776.0           |            | 340*135*330    | 26         |
| DCMJ0.9-600S   | 0.9         |                |                | 600.0           |            | 343*115*230    | 18         |
| DCMJ0.9-800S   | 0.9         |                |                | 800.0           |            | 343*115*280    | 20         |
| DCMJ0.9-1600S  | 0.9         |                |                | 1600.0          |            | 343*115*435    | 30         |
| DCMJ0.9-780S   | 0.9         |                |                | 780.0           |            | 343*159*285    |            |
| DCMH0.9-800S   | 0.9         |                |                | 800.0           |            | 343*135*350    |            |
| DCMJ0.9-800S   | 0.9         |                |                | 800.0           |            | 340*135*280    |            |
| DCMJ0.9-870S   | 0.9         |                |                | 870.0           |            | 360*135*600    |            |
| DCMJ0.8-1000S  | 0.8         |                |                | 1000.0          |            | 343*135*335    | 2KHZ       |
| DCMJ0.9-1000S  | 0.9         |                |                | 1000.0          |            | 343*150*500    |            |
| DCMJ0.9-2*750S | 0.9         |                |                | 1500.0          |            | 343*130*425    |            |
| DCMJ0.9-1500S  | 0.9         |                |                | 1500.0          |            | 390*135*340    |            |
| DCMJ-0.9-1640S | 0.9         |                |                | 1640.0          |            | 343*135*390    |            |
| DCMJ-0.9-1640S | 0.9         |                |                | 1640.0          |            | 343*135*440    |            |
| DCMJ-0.9-1640S | 0.9         |                |                | 1640.0          |            | 343*135*475    |            |
| DCMJ0.9-1850S  | 0.9         |                |                | 1850.0          |            | 390*135*420    | 38         |
| DCMJ0.9-1900S  | 0.9         |                |                | 1900.0          |            | 390*135*420    |            |
| DCMJ0.9-2000S  | 0.9         |                |                | 2000.0          |            | 390*135*420    |            |
| DCMJ0.9-2190S  | 0.9         |                |                | 2190.0          |            | 390*135*420    | 38         |
| DCMJ0.9-2200S  | 0.9         |                |                | 2200.0          |            | 390*135*440    | 37         |
| DCMJ0.9-2650S  | 0.9         |                |                | 2650.0          |            | 390*135*610    |            |
| DCMJ0.9-3000S  | 0.9         |                |                | 3000.0          |            | 390*135*420    | 38         |
| DCMJ0.9-3300S  | 0.9         |                |                | 3300.0          |            | 390*135*690    |            |
| DCMJ0.9-3300S  | 0.9         |                |                | 3300.0          |            | 415*135*670    | 58         |
| DCMJ0.9-3300S  | 0.9         |                |                | 3300.0          |            | 440*135*530    | 分8组        |
| DCMJ0.9-3600S  | 0.9         |                |                | 3600.0          |            | 390*135*580    |            |
| DCMJ0.9-3600S  | 0.9         |                |                | 3600.0          |            | 559*135*520    | 58         |
| DCMJ0.9-5000S  | 0.9         |                |                | 5000.0          |            | 560*135*590    |            |
| DCMJ0.9-5000S  | 0.9         |                |                | 5000.0          |            | 560*135*590    | 58         |
| DCMJ0.9-5000S  | 0.9         |                |                | 5000.0          |            | 560*135*560    |            |
| BCMJ0.9-7200S  | 0.9         |                |                | 7200.0          |            | 560*135*700    |            |
| DCMJ1.1-3000S  | 1.1         |                |                | 3000.0          |            | 390*135*610    | 42         |
| DCMJ1.1-5000S  | 1.1         |                |                | 5000.0          |            | 559*135*590    | 58         |
| DCMJ1.2-3600S  | 1.2         |                |                | 3600.0          |            | 559*135*520    | 60         |
| DCMJ1.2-3600S  | 1.2         |                |                | 4000.0          |            | 390*135*655    | 54         |
| DCMJ1.25-5000S | 1.25        |                |                | 5000.0          |            | 440*135*710    |            |
| DCMJ1.3-2500S  | 1.3         |                |                | 2500.0          |            | 390*135*530    |            |
| DCMJ1.6-3600S  | 1.6         |                |                | 3600.0          |            | 559*135*740    | 85         |
| DCMJ1.8-5000S  | 1.8         |                |                | 5000.0          |            | 559*145*695    |            |
| DCMJ1.8-5000S  | 1.8         |                |                | 5000.0          |            | 559*150*695    |            |
| DCS.4-200      | 5.4         |                |                | 200.0           |            | 520*130*500    |            |
| DCFM15-8uf     | 15          |                |                | 8.0             |            | 340*133*330    | 24         |
| DCFM5.0-100uf  | 5           |                |                | 100.0           |            | 440*205*570    | 64         |
| DCAM8-54.4uf   | 8           |                |                | 54.4            |            | 380*205*540    | 54         |
| DKMJ1.5-1850   | 1.5         |                |                | 1850.0          |            | 255*168*175    | 15?        |
| MZMJ4.5-500    | 4.5         |                |                | 500.0           |            | 305*240*260    | 27         |
| DC8KV-1uf      | 8           |                |                | 1.0             |            | 185*70*150     | 5          |
| DC8KV-8uf      | 8           |                |                | 8.0             |            | 295*130*280    | 16         |
| MZMJ4.0-500    | 4           |                |                | 500.0           |            | 340*140*450    | 31         |
| DC1.8-200      | 1.8         |                |                | 200.0           |            | 170*100*200    | 7          |

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# Power Capacitor

## Product list

## High Voltage Power Capacitor

| Part Number     | Voltage (KV) | Capacity (kvar) | Frequency (KHZ) | Capacitance (uf) | Current (A) | Dimensions (mm) | Weight (kg) |
|-----------------|--------------|-----------------|-----------------|------------------|-------------|-----------------|-------------|
| DFM1.0-40uf     |              |                 |                 |                  |             | 210*127*230     |             |
| DCFM7.5-20uf    |              |                 |                 | 20.0             |             | 380*180*380     | 37          |
| MCMJ0.9-2650    |              |                 |                 | 2650.0           |             | 340*125*525     | 36          |
| DCMJMC2.0-5000  |              |                 |                 | 5000.0           |             | 559*155*790     | 89          |
| MCMJ3.0-1150    |              |                 |                 | 1150.0           |             | 340*165*435     | 26          |
| MCMJ3.0-1200    |              |                 |                 | 1200.0           |             | 340*153*435     | 27          |
| MCMJ0.3-7500    |              |                 |                 |                  |             | 340*130*435     | 36          |
| MCMJ0.45-7500   |              |                 |                 |                  |             | 340*130*435     | 36          |
| MCMJ1.5-2700    |              |                 |                 |                  |             | 340*130*435     | 36          |
| MCMJ2.0-1700    |              |                 |                 |                  |             | 340*130*435     | 36          |
| DCMJ2.0-4300    |              |                 |                 |                  |             | 420*150*680     | 54          |
| CB3-100uf-800V  |              |                 |                 | 100.0            |             | 57*45*65        |             |
| BAM11/√3-200-1W | 6.3508       | 200             | 0.05            | 15.8             | 31.5        | 380*180*360     | 39          |
| BAM11-200-1W    | 11           | 200             | 0.05            | 5.3              | 18.2        | 380*180*360     | 39          |
| PUEFS23-3.4/10  | 3.4DC        |                 |                 | 10               |             | 350*145*260     | 22          |
| PUEFS23-3.4/20  | 3.4DC        |                 |                 | 20               |             | 350*145*450     | 35          |
| PUEFS23-3.4/50  | 3.4DC        |                 |                 | 50               |             | 350*145*780     | 54          |
| 440/320/1S-DR   | 0.44         | 320             | 0.05            |                  |             |                 |             |

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| Part Number       | Voltage(KV) | Capacity(kvar) | Frequency(KHZ) | Capacitance(uf) | Current(A) | Dimensions(mm) | Weight(kg) |
|-------------------|-------------|----------------|----------------|-----------------|------------|----------------|------------|
| BAM6.6-500-1W     | 6.6         | 500            | 0.05           | 36.6            | 75.8       | 440*180*550    | 72         |
| BAM6.6-500-1W     | 6.6         | 500            | 0.05           | 36.6            | 75.8       | 380*180*740    | 74         |
| BAM6.6-334-1W     | 6.6         | 334            | 0.05           | 24.4            | 50.6       | 380*180*520    | 51         |
| BAM6.6-300-1W     | 6.6         | 300            | 0.05           | 21.9            | 45.5       | 380*180*475    | 48         |
| BAM6.6-180-1W     | 6.6         | 180            | 0.05           | 13.2            | 27.3       | 380*180*310    | 32         |
| BAM6.6-176-1W     | 6.6         | 176            | 0.05           | 12.9            | 26.7       | 380*180*300    | 31         |
| BAM6.6-160-1W     | 6.6         | 160            | 0.05           | 11.7            | 24.2       | 380*180*280    | 29         |
| BAM6.6-120-1W     | 6.6         | 120            | 0.05           | 8.8             | 18.2       | 380*180*230    | 25         |
| BAM6.6-77-1W      | 6.6         | 77             | 0.05           | 5.6             | 11.7       | 380*180*180    | 20         |
| BAM11/√3-334-1W   | 6.3508      | 334            | 0.05           | 26.4            | 52.6       | 380*180*515    | 54         |
| BFM2 285-218-3W   | 2.285       | 218            | 0.06           | 110.81          | 95.4       | 380*165*375    | 39         |
| BAM3.46/√3-465-3W | 2           | 465            | 0.06           | 308.5           | 232.5      | 440*170*540    | 50         |
| RAM6.5-200-1W     | 6.5         | 200            | 0.05           | 15.08           | 30.8       | 345*134*595    | 40         |
| BFM7.2/√3-10-3W   | 4.157       | 10             | 0.06           | 1.5             | 2.4        | 560*140*180    | 27         |
| BAM7.2/√3-300-1W  | 4.157       | 300            | 0.05           | 55.3            | 72.2       | 380*180*470    | 46         |
| BAM7.2/√3-200-1W  | 4.157       | 200            | 0.05           | 36.9            | 48.1       | 380*180*330    | 35         |
| BAM7.2/√3-300-1W  | 4.157       | 300            | 0.05           | 55.3            | 72.2       | 440*180*420    | 65         |
| BAM7.2/√3-200-1W  | 4.157       | 200            | 0.05           | 36.9            | 48.1       | 440*180*610    | 46         |
| BAM7.8-824-1W     | 7.8         | 824            | 0.05           | 43.1            | 105.6      | 345*175*1130   | 92         |
| BAM11/√3-300-1W   | 6.3508      | 300            | 0.05           | 23.7            | 47.2       | 380*180*475    | 50         |
| BAM11/√3-250-1W   | 6.3508      | 250            | 0.05           | 19.7            | 39.4       | 380*180*410    | 43         |
| BAM11/√3-200-1W   | 6.3508      | 200            | 0.05           | 15.8            | 31.5       | 380*180*340    | 39         |
| BAM11/√3-167-1W   | 6.3508      | 167            | 0.05           | 13.2            | 26.3       | 380*180*290    | 35         |
| BAM11/√3-150-1W   | 6.3508      | 150            | 0.05           | 11.8            | 23.6       | 380*180*270    | 31         |
| BAM11/√3-150-1W   | 6.3508      | 150            | 0.05           | 11.8            | 23.6       | 348*142*570    | 33         |
| BAM11/√3-100-1W   | 6.3508      | 100            | 0.05           | 7.9             | 15.7       | 380*180*200    | 26         |
| BAM11/√3-50-1W    | 6.3508      | 50             | 0.05           | 3.9             | 7.9        | 380*180*130    | 19         |
| BAM11/√3-30-1W    | 6.3508      | 30             | 0.05           | 2.4             | 4.7        | 380*180*115    | 17         |
| BAM12/√3-100-1W   | 6.93        | 100            | 0.05           | 6.6             | 14.4       | 380*180*210    | 24         |
| BAM12/√3-150-1W   | 6.93        | 150            | 0.05           | 9.9             | 21.6       | 380*180*280    | 29         |
| BAM4.2-220-1W     | 4.2         | 220            | 0.05           | 39.7            | 52.4       | 380*180*400    | 43         |
| BAM6.5-2001W      | 6.5         | 200            | 0.05           | 15.1            | 30.8       | 380*180*350    | 37         |
| BFM15/√3-85-3W    | 8.66        | 85             | 0.06           | 3.0             | 9.8        | 560*180*190    | 34         |
| BAM11-50-3W       | 11          | 400            | 0.05           | 10.5            | 36.4       | 560*180*480    | 70         |
| BFM11-50-3W       | 11          | 50             | 0.05           | 1.3             | 4.5        | 560*180*160    | 30         |
| BAM11-150-1W      | 11          | 150            | 0.05           | 3.9             | 13.6       | 380*180*280    | 31         |
| BAM11-100-3W      | 11          | 100            | 0.05           | 2.6             | 9.1        | 380*180*220    | 29         |
| BAM11-150-3W      | 11          | 150            | 0.05           | 3.9             | 13.6       | 380*180*285    | 34         |
| BAM11-200-3W      | 11          | 200            | 0.05           | 5.3             | 18.2       | 380*180*340    | 38         |
| BAM11-450-3W      | 11          | 450            | 0.05           | 11.8            | 40.9       | 560*180*480    | 72         |
| RAM11.05-448-1W   | 11.05       | 448            | 0.05           | 11.7            | 40.5       | 440*180*600    | 66         |
| RAM11.5-482-1W    | 11.5        | 482            | 0.05           | 11.6            | 41.9       | 440*180*650    | 70         |
| BAM11.5-200-1W    | 11.5        | 200            | 0.05           | 4.8             | 17.4       | 380*180*365    | 39         |
| BAM11.8-400-1W    | 11.8        | 400            | 0.05           | 9.1             | 33.9       | 380*180*560    | 59         |
| BAM12-334-1W      | 12          | 334            | 0.05           | 7.4             | 27.8       | 380*180*520    | 55         |
| BAM12-250-1W      | 12          | 250            | 0.05           | 5.5             | 20.8       | 380*180*390    | 42         |
| BAM12-100-1W      | 12          | 100            | 0.05           | 2.2             | 8.3        | 380*180*220    | 28         |
| BAM6.75-150-1W    | 6.75        | 150            | 0.05           | 10.5            | 22.2       | 380*180*290    | 30         |
| BAM7.8-824-1W     | 7.8         | 824            | 0.05           | 43.1            | 105.6      | 345*175*1130   | 92         |
| BAM8.28-400-1W    | 8.28        | 400            | 0.05           | 18.6            | 48.3       | 380*180*600    | 58         |
| BAM9.485-795-1W   | 9.485       | 795            | 0.06           | 23.5            | 83.8       | 380*180*970    | 90         |
| BAM13.85-846-1W   | 13.85       | 846            | 0.05           | 14.0            | 61.1       | 345*210*1040   | 98         |
| BAM13.35-876-1W   | 13.35       | 876            | 0.05           | 15.7            | 65.6       | 345*210*1095   | 103        |
| BAM13.95-867-1W   | 13.95       | 867            | 0.05           | 14.2            | 62.2       | 345*210*1095   | 102        |
| BAM13.8-100-1W    | 13.8        | 100            | 0.05           | 1.7             | 7.2        | 380*180*205    | 23         |
| BAM13.8-200-1W    | 13.8        | 200            | 0.05           | 3.3             | 14.5       | 380*180*330    | 33         |
| 15-8-6-3          | 8.66        | 8.6            | 0.06           | 0.3             | 1.0        | 560*150*170    | 28         |
| BFM24-100-3W      | 24          | 100            | 0.05           | 0.6             | 4.2        | 560*170*230    |            |
| BAM4.8-488-1W     | 4.8         | 488            | 0.05           | 67.5            | 101.7      | 343*172*900    | 75         |
| BAM6.5-390-1W     | 6.5         | 390            | 0.05           | 29.4            | 60.0       | 343*175*970    | 78         |
| BAM6.5-390-1W     | 6.5         | 390            | 0.05           | 29.4            | 60.0       | 345*175*890    | 72         |

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## Inductor Heating Capacitor List

| Type               | Voltage(Kv) | Cap.(Kvar) | Frequency(Khz) | Cap.Value | L(mm) | W(mm) | H(mm) |
|--------------------|-------------|------------|----------------|-----------|-------|-------|-------|
| RAM0.55-1089-3.2S  | 0.55        | 1089       | 3.2            | 179.10    | 342.9 | 136.7 | 342.9 |
| RAM0.625-883-1.2SS | 0.625       | 883        | 1.2            | 299.90    | 342.9 | 136.7 | 330.2 |
| RAM1.0-3000-0.3S   | 1           | 3000       | 0.3            | 1592.30   | 558.8 | 203.2 | 711.2 |
| RAM1.2-200-0.06S   | 1.2         | 200        | 3.2            | 6.90      | 342.9 | 111.3 | 393.7 |
| RAM1.25-3000-10S   | 1.25        | 3000       | 10             | 30.50     | 330.2 | 127   | 342.9 |
| RAM1.5-2333-3S     | 1.5         | 2333       | 3              | 55.10     | 342.9 | 111.3 | 330.2 |
| RAM1.8-2442-1.2S   | 1.8         | 2442       | 1.2            | 100.10    | 558.8 | 114.3 | 342.9 |
| RAM2.2-4000-0.3S   | 2.2         | 4000       | 0.3            | 438.60    | 558.8 | 203.2 | 711.2 |
| RAM2.4-62-0.3S     | 2.4         | 62         | 0.3            | 5.70      | 203.2 | 101.6 | 282.7 |
| RAM2.25-49-0.15S   | 2.25        | 49         | 0.15           | 10.20     | 203.2 | 101.6 | 282.7 |
| RAM2.8-4000-0.3S   | 2.8         | 4000       | 0.3            | 270.80    | 558.8 | 203.2 | 711.2 |
| RAM2.8-4800-0.4S   | 2.8         | 4800       | 0.4            | 243.70    | 558.8 | 184.1 | 711.2 |
| RAM3.0-118-0.7S    | 3           | 118        | 0.7            | 2.90      | 203.2 | 101.6 | 282.7 |
| RAM3.0-5450-0.7S   | 3           | 5450       | 0.7            | 137.80    | 330.0 | 215.0 | 640.0 |
| RAM3.0-8400-0.7S   | 3           | 8400       | 0.7            | 212.30    | 558.8 | 203.2 | 711.2 |
| RAM3.0-13400-1.2S  | 3           | 13400      | 1.2            | 197.50    | 558.8 | 203.2 | 711.2 |
| RAM3.6-6000-0.5S   | 3.6         | 6000       | 0.5            | 147.40    | 330.0 | 290.0 | 850.0 |
| RAM4.0-7500-0.4S   | 4           | 7500       | 0.4            | 74.60     | 330   | 340   | 895   |
| RAM5.0-8000-0.4S   | 5           | 8000       | 0.4            | 127.40    | 330   | 390   | 825   |
| RAM6.0-6000-0.3S   | 6           | 6000       | 0.3            | 88.50     | 330   | 390   | 720   |
| DCMJ0.9-1640S      | 0.9         |            |                | 1640      | 342.9 | 124   | 450.8 |
| DCMJ0.9-5000S      | 0.9         |            |                | 5000      | 558.8 | 149.4 | 673.1 |

# Power Capacitor



YANGZHOU POSITIONING TECH. CO., LTD

## DC Filter Capacitors for Induction Furnace

| Part Number    | Rated Volatge | Rated Capacity | Rated Frequency | Rated Capacitance | Current | Group | Dimensions(mm) |       |        | Weight |
|----------------|---------------|----------------|-----------------|-------------------|---------|-------|----------------|-------|--------|--------|
|                | KV            | KVar           | KHZ             | Uf                | A       |       | Length         | Width | Height | KG     |
| DZMJ0.86-1600S | 0.86          |                |                 | 1600              | 1000    | 1     | 320            | 135   | 475    | 26     |
| DZMJ0.86-1850S | 0.86          |                |                 | 1850              | 1200    | 1     | 320            | 135   | 530    | 29     |
| DZMJ0.86-3000S | 0.86          |                |                 | 3000              | 1500    | 1     | 440            | 135   | 490    | 36     |
| DZMJ0.9-4000S  | 0.9           |                |                 | 4000              | 1600    | 1     | 440            | 190   | 380    | 39     |
| DZMJ0.9-5000S  | 0.9           |                |                 | 5000              | 2000    | 1     | 440            | 190   | 545    | 55     |
| DZMJ1.2-1850S  | 1.2           |                |                 | 1850              | 1200    | 1     | 340            | 190   | 500    | 38     |
| DZMJ1.2-2600S  | 1.2           |                |                 | 2600              | 1200    | 1     | 440            | 140   | 595    | 44     |
| DZMJ1.2-3000S  | 1.2           |                |                 | 3000              | 1200    | 1     | 390            | 190   | 650    | 59     |
| DZMJ1.2-4000S  | 1.2           |                |                 | 4000              | 1600    | 1     | 440            | 190   | 575    | 58     |
| DZMJ1.2-5000S  | 1.2           |                |                 | 5000              | 2000    | 1     | 440            | 190   | 685    | 68     |
| DZMJ1.5-1950S  | 1.5           |                |                 | 1950              | 1000    | 1     | 440            | 140   | 775    | 57     |
| DZMJ1.8-1850S  | 1.8           |                |                 | 1850              | 1000    | 1     | 343            | 238   | 780    | 71     |

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# Power Capacitor

## Ceramic Capacitor

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瓷介电容器基本性能指标介绍 .....  
Instruction of Ceramic Capacitor  
CC81 型瓷介电容器 .....  
CC81 series Ceramic Capacitor



CT81 型瓷介电容器 .....  
CT81 series Ceramic Capacitor

CT7 型瓷介电容器 .....  
CT7series Ceramic Capacitor



CT8 型瓷介电容器 .....  
CT8 series Ceramic Capacitor



CT91 型超高压电容器.....  
CT91 series ultrahigh voltage Ceramic Capacitor



CCG6 型高功率率电容器 .....  
CCG6 Iseries high-frequency power Ceramic Capacitor



CCG81 型高频高功率率电容器 .....  
CCG81 series high-frequency power Ceramic Capacitor



陶瓷电容器芯片（镀铜瓷片） .....  
Chip of Ceramic Capacitor (Copper electrode)

II 类介质陶瓷材料（粉料） .....  
Class II dielectric ceramic powder

附录：陶瓷电容器 GB 标准与其它标准对照 .....  
Appendix: the contrast between GB and other standard



<https://www.yzpst.com/ceramic-capacitor/61941326.html>

# Power Capacitor

## Water Cooled Resonant Capacitor

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YANGZHOU POSITIONING TECH. CO., LTD

YZPST-C41

Water Cooled Resonant Capacitor

### Water Cooled Resonant Capacitor C41



#### Characteristics

- Conduction water-cooled
- Polypropylene dielectric
- Low dissipation factor( $tg\delta$ ), low ESL and low ESR
- High voltage, high frequency and high dv/dt
- High current resistance, excellent heat dissipation

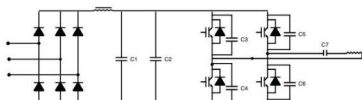
#### Application

- Widely used in high power and high frequency resonant devices

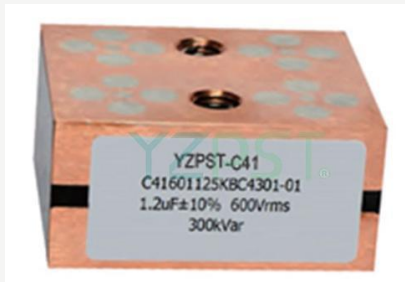
#### Technical Data

|                                  |                                                                |
|----------------------------------|----------------------------------------------------------------|
| ● Reference standards            | GB/T 3984-2004 IEC 60110.1                                     |
| ● Operating temperature range    | -40°C~+85°C                                                    |
| ● Capacitance range              | 0.1 $\mu$ F~85 $\mu$ F                                         |
| ● Rated capacitance              | 100kVar-1500 kVar                                              |
| ● Rated voltage                  | 400VAC-1100VAC                                                 |
| ● Tolerance                      | $\pm 5\%$ $\pm 10\%$                                           |
| ● Test voltage between terminals | 1.5 $U_{NOC}$ 10s<br>3.5 $U_{NOC}$ 10s at 25°C $\pm 5^\circ$ C |
| ● Dissipation factor             | $tg\delta \leq 5 \times 10^{-4}$ at 25°C $\pm 5^\circ$ C, 1kHz |
| ● Insulation resistance          | $R \geq 3000s$ , at 100VDC, 25°C $\pm 5^\circ$ C, 60s          |
| ● Life expectancy                | 100000h at $U_N$ and 70°C, 30000h at $U_{rms}$                 |

#### Typical Circuit



C7 is the water-cooled capacitor in the series resonant capacitor



### Water Cooled Resonant Capacitor

Type: YZPST-C41-400kVar-400VAC-5.0 $\mu$ F

#### 产品特点.Characteristics

- 水冷式;
- 聚丙烯介质;
- 损耗( $tg\delta$ )小, 自感(ESL)小, 等效串联电阻(ESR)小;
- 高电压、高频率、高 dv/dt 特性、承受大电流、散热性能好
- Conduction water-cooled
- Polypropylene dielectric
- Low dissipation factor( $tg\delta$ ), low ESL and low ESR
- High voltage, high frequency and high dv/dt, Excellent heat dissipation  
It can bear large current

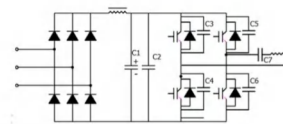
#### 产品应用. Application

- 广泛应用于大功率的高频谐振设备中
- Widely used in high power and high frequency resonant devices

#### 能参数. Technical data

|                                      |                                                                |
|--------------------------------------|----------------------------------------------------------------|
| 引用标准/Reference standards             | GB/T 3984-2004 IEC 60110.1                                     |
| 工作温度范围/Operating temperature range   | -40°C~+85°C                                                    |
| 容量范围/Capacitance range               | 5.0 $\mu$ F                                                    |
| 额定容量/ Rated capacitance              | 400 kVar                                                       |
| 额定电压 Rated voltage                   | 400VAC                                                         |
| 容量偏差/Tolerance                       | $\pm 5\%$                                                      |
| 极间耐压/ Test voltage between terminals | 1.5 $U_{NOC}$ 10s<br>2.0 $U_{NOC}$ 10s at 25°C $\pm 5^\circ$ C |
| 损耗角正切/Dissipation factor             | $tg\delta \leq 5 \times 10^{-4}$ at 25°C $\pm 5^\circ$ C, 1kHz |
| 绝缘电阻/Insulation resistance           | $R \geq 5000s$ , at 100VDC, 25°C $\pm 5^\circ$ C, 60s          |
| 预期寿命/Life expectancy                 | 100000hrs ( $U_N$ @hotspot $\leq 70^\circ$ C )                 |

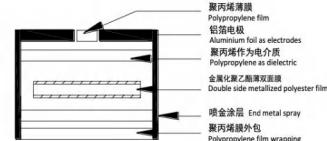
#### 典型线路图. Typical circuit



串联谐振电路中C7为水冷电容

C7 is the water-cooled capacitor in the series resonant capacitor

#### 结构图. Construction diagram



<https://www.yzpst.com/water-cooled-capacitor-611/61940942.html>

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# Power Capacitor

## CBB60 Capacitor

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### Feature:

The capacitor takes heavy-edge metallized Al/Zn PP film as electrodes and dielectric. Its components are sealed with flame-retardant epoxy resin. It has cylindrical outline with high moisture resistance and stability.

### Applications:

Broadly applied to starting and running of AC single-phase motors at 50Hz(60Hz) frequency for washers and high efficiency compressors of refrigerators etc.



<https://www.yzpst.net/yzpst-cbb60-16474126242846446.html>

### Technical Specifications:

Standard: IEC 60252- 1 :2001

Technical features:

Climate type : 40/70/21 or 40/85/21

Capacitance tolerance:  $\pm 5\%$

Insulation Resistance :  $\geq 3000S$  ( $M\Omega \cdot \mu F$ )

Dielectric dissipation factor:  $\tan\delta \leq 0.002$  (50Hz~ 100Hz)

Application requirements:

Altitude :  $\leq 2000m$

Residual voltage in application :less than 10% of rated voltage.

Allowed maximum voltage: less than 1. 1 times of rated voltage

Permissible maximum current: less than 1.3 times of rated current

### Dimensions & specifications (mm)

| Rated Voltage<br>(VAC)                       | Nominal capacitance ( $\mu F$ )                                                                                                       | Size (mm)                      |                                      |
|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|--------------------------------------|
|                                              |                                                                                                                                       | D                              | H                                    |
| 200,250,370,400,4<br>40,450,600,700,12<br>00 | 1,1.2,1.5,2,2.5,3,3.5,4,4.5,5,5.5,<br>6,6.5,7,8,10,10.5,11,11.5,12,15,<br>16,20,<br>25,30,35,40,45,50,55,60,12+6,<br>10+5.5, 13+6,... | 30,32,35,40,41,4<br>3,45,46,50 | 47,57,65,73,80,8<br>4,85, 98,105,110 |

Note:

- 1 、 Terminal leads are wires or 250# (187#) single (dual) tab(s).
- 2 、 Other dimension serials can be specified in pursuance of customer's request.

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# Power Capacitor

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## Super Capacitor - Coin type & Winding product series

### Coin Type Product Series

#### Coin Type Product Series:

Use temperature range  $-25^{\circ}\text{C}$  -  $70^{\circ}\text{C}$ , small volume, excellent voltage retention characteristics.

Suitable for intelligent instrumentation.



#### Coin Type Product Series:

The temperature range is  $-25^{\circ}\text{C}$  -  $85^{\circ}\text{C}$ , excellent voltage retention characteristics, suitable for intelligent instrumentation.



### Winding Product Series

#### Winding Product Series:

SE/HE type product uses a temperature range of  $-25^{\circ}\text{C}$  -  $70^{\circ}\text{C}$  low leakage, suitable for long-term continuous discharge of small current. SP/HP/LR type products use a temperature range of  $-40^{\circ}\text{C}$  -  $70^{\circ}\text{C}$  low internal resistance, providing instantaneous high current output.

#### Winding HT Product Series:

The high temperature series products are used in the temperature range of  $-40^{\circ}\text{C}$  ~  $85^{\circ}\text{C}$ , suitable for long-term stable operation in special high temperature environment..

#### Winding 3V Product Series:

The 3V series has a temperature range of  $-40$  to  $+65^{\circ}\text{C}$  and is suitable for long-term stable operation in high pressure environments..



<https://www.yzpst.net/yzpst-cbb60-16474126242846446.html>

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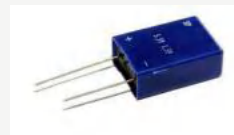
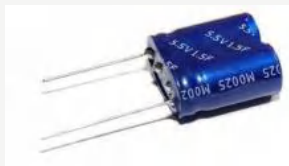
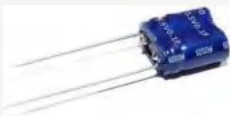
# Power Capacitor

## Super Capacitor - Combined Product Series

### Combined Series:

- SP type products use temperature range  $-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$ ,
- SE type products use temperature range  $-25^{\circ}\text{C} \sim 70^{\circ}\text{C}$ ,

The two types of combined products have high pressure resistance and are suitable for discharge in a few milliamperes (mA) and several amperes(A).



### Module Product Series:

Super capacitor energy storage module with protection circuit, good stability and high conversion efficiency. The voltage and capacity of the super capacitor are improved by series and parallel connection, and it has a good application prospect in the automotive field and the energy storage field.



### Other types of product:

- 3000F super capacitor. The shape is a cylindrical product with two ends, which has low internal resistance and is suitable for high current operation.
- 18650 type super capacitor. The same shape as the 18650 battery, the temperature range of  $-40^{\circ}\text{C} \sim 70^{\circ}\text{C}$ , low internal resistance characteristics, suitable for high current operation.



## More Capacitors



## Motor starting capacitor



## High Voltage Discharge Capacitor



## Large Aluminum Electrolytic Capacitors



## Locomotive Capacitors Shunt Filtering Capacitors



## Cylinder Aluminum can oil type AC filter capacitor



# YZPST Products

-

## Fuse

# Fuse

## Product Overview

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# Fuse

## Types of fuse

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### Advantages:

- Small Space Occupation and Weight
- Good Appearance, Higher Breaking Capacity
- Good Current limiting, Less Power Consumption

### Easy-to-Installation



<https://www.yzpst.com/semiconductor-fuse-and-ferrite-972/61941196.html>

<https://www.yzpst.net/yzpst-rsm05p75kn-15922067011982810.html>

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# Fuse

## EV Protection Fuse

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### FRG Series

DC Fast Acting Fuse

DC110~250V

DC500~750V



### FRB Series

DC Fast Acting Fuse

DC150V

DC250/500V

DC700/750V

DC1000V



### FRM UN Series

DC Fast Acting Fuse

DC500~1000V



### FRM P Series

DC Fast Acting Fuse

DC500~1000V

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## Key applications

- **Electrolysis industries:**

- high-power rectifier power supply,
- Aluminum electrolysis rectifier,
- Chlor-alkali rectifier,
- Non-ferrous metal (copper, zinc, manganese) rectifier cabinet, etc

- **Medium frequency induction heating industry:**

- Medium frequency induction heating equipment,
- Medium frequency induction melting furnace,
- Medium frequency induction heating quenching equipment,
- Medium frequency induction power supply, etc

- **Rectifier device for heating silicon carbide and graphite electrode:**

- DC mineral heat furnace,
- Electrode blackening rectifier.

- **Railway locomotive, subway industry:**

- Locomotive rectifier,
- Subway dc power supply,
- DC switchgear, etc

- **Metallurgical rolling transmission control industry:**

- DC transmission control cabinet,
- DC control cabinet,
- DC transmission electronically controlled speed control device.
- AC frequency conversion drive control

- **Excitation cabinet:**

- Generator excitation cabinet,
- Excitation device,
- DC motor excitation cabinet, etc

- **New energy industry:**

- Photo-voltaic inverter,
- Wind power inverter,
- DC charging pile for electric vehicles



# YZPST Products - Resistors

# Resistor

## Types of resistors

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# Resistor

## Types of resistors

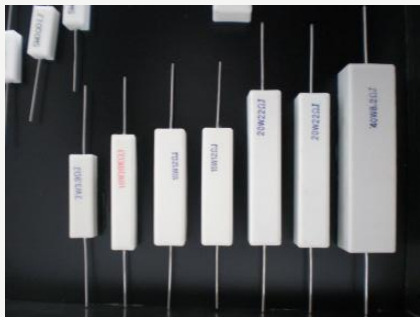
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<https://www.yzpst.com/thick-film-chip-resistors/62650051.html>

**Power Thick Film Resistors**



<https://www.yzpst.com/cement-resistor/61941180.html>

**Cement Resistor**



<https://www.yzpst.net/yzpst-mo-3w-150k-tp65-16478539800989646.html>

**Carbon film resistor**



<https://www.yzpst.com/metal-film-resistors/62387579.html>

**high-power wire winding resistor**



<https://www.yzpst.net/yzpst-500w-rx20-resistor-15880412271013759.html>

**Water cooled resistor**

# Resistor

## Carbon Film Resistors

YZPST

YANGZHOU POSITIONING TECH. CO., LTD

### Characteristics and utility:

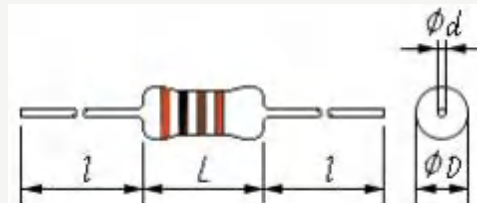
- wide resistance range
- small volume.high accuracy
- Low price, higher temperature and maximum voltage

### Packing:

- taping and bulk,
- various kinds of moulding shapes



Dimension



| Specification       | 尺寸 dimension(mm) |         |     |        |
|---------------------|------------------|---------|-----|--------|
|                     | L                | D       | l±3 | d±0.05 |
| CFR-1/8W/RT13       | 3.3±0.5          | 1.8±0.5 | 26  | 0.4    |
| CFR-1/4W/RT14       | 6.3±0.5          | 2.3±0.5 | 28  | 0.45   |
| CFR-1/4WS/RT14      | 3.3±0.5          | 1.8±0.5 |     | 0.4    |
| CFR-1/2W/RT15       | 9.5±0.5          | 3.5±0.5 |     | 0.5    |
| CFR-1/2WS/RT15      | 6.3±0.5          | 2.3±0.3 |     | 0.45   |
| CFR-1W/CFR-2WSRT16  | 11.0±0.5         | 4.5±0.5 |     | 0.6    |
| CFR-2W/CFR-3WS/RT17 | 15.5.0±0.5       | 5.0±0.5 |     | 0.65   |

| 型号<br>Model | 70℃<br>额定功率(W)<br>Rated Power | 温度系数(10 <sup>-6</sup> /℃)<br>Temperature<br>coefficient | 元件极限电压(直流或交流有效值)(V)<br>Maximum Voltage( Cocurrent or<br>exchange effective value) | 绝缘电压(直流或交流峰值)(V)<br>Isolation voltage (Cocurrent<br>or exchange peak value) | 阻值范围(ΩJ)(±5%)<br>Resistance range |
|-------------|-------------------------------|---------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------|-----------------------------------|
| RT13        | 0.167                         | +350~ -1000                                             | 200                                                                               | 300                                                                         | 1 ~ 10M                           |
| RT14        | 0.25                          |                                                         | 250                                                                               | 350                                                                         |                                   |
| RT14        | 0.25                          |                                                         | 250                                                                               | 350                                                                         |                                   |
| RT15        | 0.5                           |                                                         | 350                                                                               | 500                                                                         |                                   |
| RT15        | 0.5                           |                                                         | 350                                                                               | 500                                                                         |                                   |
| RT16        | 1                             |                                                         | 350                                                                               | 500                                                                         |                                   |
| RT17        | 2                             |                                                         | 350                                                                               | 500                                                                         | 1 ~ 10M                           |
|             |                               |                                                         |                                                                                   |                                                                             |                                   |

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# Resistor

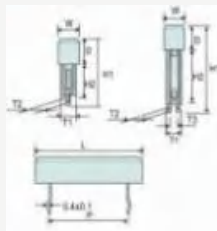
## Cement fixed resistors

YZPST

YANGZHOU POSITIONING TECH. CO., LTD

### Characteristics

- completely non-flammable
- Small, robust and safe
- Senseless can also be provided
- Excellent moisture resistance
- High or low resistance value, burn-in or cutting type can be specially provided



### RX27-1 Axial

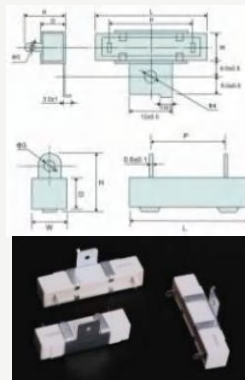
| Part number | 尺寸 Dimension(mm) |           |           |            |              | 阻值范围 Resistance range      |                             |
|-------------|------------------|-----------|-----------|------------|--------------|----------------------------|-----------------------------|
|             | W $\pm$ 1        | D $\pm$ 1 | L $\pm$ 1 | H          | d $\pm$ 0.05 | 绕线型<br>Winding type        | 切割型<br>cutting type         |
| RX27- 1-2W  | 7                | 7         | 18        | 28 $\pm$ 3 | 0.8          | 0.1 $\Omega$ -22 $\Omega$  | 23 $\Omega$ -22K $\Omega$   |
| RX27- 1-3W  | 8                | 8         | 22        | 32 $\pm$ 3 | 0.8          | 0.1 $\Omega$ -82 $\Omega$  | 83 $\Omega$ -33K $\Omega$   |
| RX27- 1-5W  | 10               | 9         | 22        | 35 $\pm$ 3 | 0.8          | 0.1 $\Omega$ -82 $\Omega$  | 83 $\Omega$ -50K $\Omega$   |
| RX27- 1-7W  | 10               | 9         | 35        | 35 $\pm$ 3 | 0.8          | 0.1 $\Omega$ -150 $\Omega$ | 151 $\Omega$ -50K $\Omega$  |
| RX27- 1-10W | 10               | 9         | 48.5      | 35 $\pm$ 3 | 0.8          | 0.1 $\Omega$ -270 $\Omega$ | 271 $\Omega$ -50K $\Omega$  |
| RX27- 1-15W | 12.5             | 11.5      | 48.5      | 35 $\pm$ 3 | 0.8          | 1 $\Omega$ -470 $\Omega$   | 471 $\Omega$ -150K $\Omega$ |
| RX27- 1-20W | 14.5             | 13.5      | 60.5      | 35 $\pm$ 3 | 0.8          | 1 $\Omega$ -560 $\Omega$   | 561 $\Omega$ -150K $\Omega$ |
| RX27- 1-25W | 14.5             | 13.5      | 60.5      | 35 $\pm$ 3 | 0.8          | 1 $\Omega$ -820 $\Omega$   | 821 $\Omega$ -150K $\Omega$ |

### RX27-3A, 3B

| Part number  | 尺寸 Dimensicn(mm) |      |    |      |    |    |      |     | 阻值范围 Resistance range |                     |
|--------------|------------------|------|----|------|----|----|------|-----|-----------------------|---------------------|
|              | ±1               |      |    |      |    |    |      | ±2  | 绕线型<br>Winding type   | 切割型<br>cutting type |
|              | W                | D    | L  | P    | T1 | H1 | H2   | T2  | 阻值范围 Resistance range |                     |
| RX27-3B-5W   | 10               | 9    | 27 | 9.5  | 7  | 25 | 10.5 | 1.6 | 0.1 Ω-82Ω             | 83 Ω-50KΩ           |
| RX27-3B-7W   | 10               | 9    | 35 | 20.5 | 7  | 25 | 10.5 | 1.6 | 0.1 Ω- 150Ω           | 151 Ω-50KΩ          |
| RX27-3B- 10W | 10               | 9    | 48 | 35   | 7  | 25 | 10.5 | 1.6 | 0.1 Ω-270Ω            | 271 Ω-50KΩ          |
| RX27-3B- 15W | 12.5             | 11.5 | 48 | 32   | 10 | 35 | 15   | 3   | 1 Ω-470Ω              | 471 Ω- 150KΩ        |
| RX27-3B-20W  | 12.5             | 13.5 | 63 | 44   | 10 | 37 | 15   | 3   | 1 Ω-560Ω              | 561 Ω- 150KΩ        |

### RX27-4H

| Part number | 尺寸 Dimension(mm) |      |    |    |    | 阻值范围 Resistance range      |                              |
|-------------|------------------|------|----|----|----|----------------------------|------------------------------|
|             | W                | D    | L  | P  | H  | 绕线型<br>Winding type        | 切割型<br>cutting type          |
| RX27-4H-10W | 10               | 9    | 48 | 35 | 18 | 0.1 $\Omega$ -270 $\Omega$ | 271 $\Omega$ -50K $\Omega$   |
| RX27-4H-15W | 12.5             | 11.5 | 48 | 32 | 21 | 1 $\Omega$ -470 $\Omega$   | 471 $\Omega$ -150K $\Omega$  |
| RX27-4H-20W | 12.5             | 13.5 | 63 | 44 | 21 | 1 $\Omega$ -560 $\Omega$   | 561 $\Omega$ -150K $\Omega$  |
| RX27-4H-30W | 19               | 19   | 75 | 55 | 32 | 1 $\Omega$ -820 $\Omega$   | 821 $\Omega$ -150K $\Omega$  |
| RX27-4H-40W | 19               | 19   | 90 | 70 | 32 | 1 $\Omega$ -1K $\Omega$    | 1.1K $\Omega$ -150K $\Omega$ |



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# Resistor

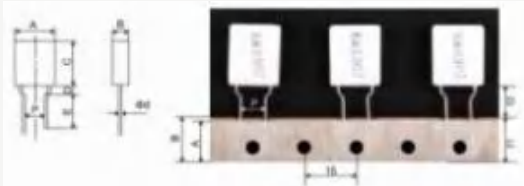
## Cement fixed resistors

YZPST.

YANGZHOU POSITIONING TECH. CO., LTD

### RX27-6H Forming Tape

- Applicable automation plug-ins;
- Can produce RX27-5W, RGC5W;
- Small size and non-inductive can also provide

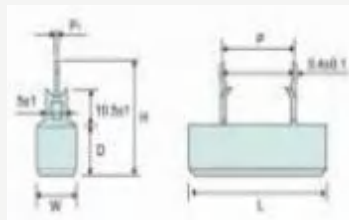


### Dimensions:

| 尺寸<br>Dimension( mm) | A | B | C | D     | E   | P       | φd        |
|----------------------|---|---|---|-------|-----|---------|-----------|
| Specs                |   |   |   | 3±0.5 | ≥13 | 7.5±0.3 | 0.78±0.05 |

| Taping<br>Specifications | A  | B  | C  | D       | P       |
|--------------------------|----|----|----|---------|---------|
| 5W-TP<br>unit: mm        | 13 | 15 | 15 | 9.6±0.5 | 7.5±0.3 |

### RX27-3



| 型号          | 尺寸 Dimension(mm) |     |     |        | 阻值范围 Resistance range |                     |
|-------------|------------------|-----|-----|--------|-----------------------|---------------------|
|             | W±1              | D±1 | L±1 | D±0.05 | 绕线型<br>Winding type   | 切割型<br>cutting type |
| RX27-5-2W   | 11.5             | 7.5 | 20  | 0.8    | 0.1 Ω-22Ω             | 28 Ω-22KΩ           |
| RX27-5-3W   | 12.5             | 8.5 | 25  | 0.8    | 0.1 Ω-82Ω             | 83 Ω-33KΩ           |
| RX27-5-5W   | 12.5             | 9   | 25  | 0.8    | 0.1 Ω-82Ω             | 83 Ω-50KΩ           |
| RX27-5-7W   | 12.5             | 9   | 38  | 0.8    | 0.1 Ω- 150Ω           | 151 Ω-50KΩ          |
| RX27-5- 10W | 12.5             | 9   | 50  | 0.8    | 0.1 Ω-270Ω            | 271 Ω-50KΩ          |

### Application:

Completely non-combustible, non-inductance can also be provided, such as:

power amplifier, color TV, electric car, microwave oven, electric heating, Instruments etc.

## Cement fixed resistors

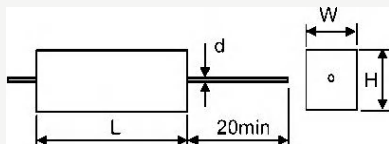
YZPST cement resistors are made by winding resistance wires around non-alkaline ceramic core or metal oxide film rod, which is added with a layer of heat and humidity resistant and non-corrosive protective material.

The wire wound resistor is then placed in a square ceramic package sealed with special nonflammable heat-resistant cement.

YZPST also offers wide range cement type resistors including

**SQP type, SQM type, SQZ type, and SQH type.**

### SQP Type

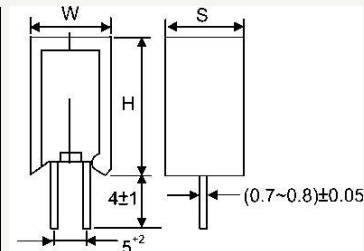


**SQP CEMENT TYPE RESISTORS DIMENSIONS**

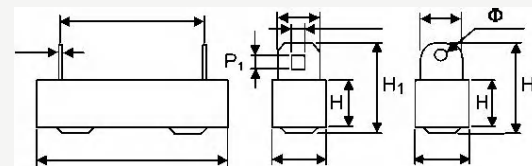
| Type    | Dimensions (mm) |      |       |         | Resistance Range(Ω) |          |
|---------|-----------------|------|-------|---------|---------------------|----------|
| SQP     | W±1             | H±1  | L±1.5 | d±0.05  | SQP                 | RS+SQP   |
| 2W      | 7               | 7    | 18    | 0.5-0.6 | 0.1-82              |          |
| 3W      | 8               | 8    | 22    | 0.7-0.8 | 0.1-180             | 181-33K  |
| 5W      | 10              | 9    | 22    | 0.7-0.8 | 0.1-180             | 181-50K  |
| 7W      | 10              | 9    | 35    | 0.7-0.8 | 0.1-430             | 431-50K  |
| 10W     | 10              | 9    | 48    | 0.7-0.8 | 0.1-470             | 471-50K  |
| 15W     | 12.5            | 11.5 | 48    | 0.7-0.8 | 0.5-600             | 601-150K |
| 20W,25W | 14              | 13.5 | 60    | 0.7-0.8 | 0.8-1K              | 1.1-150K |

### SQM Type

| SQM CEMENT TYPE RESISTORS DIMENSIONS |              |     |     |                     |         |
|--------------------------------------|--------------|-----|-----|---------------------|---------|
| Type                                 | Dimensions i |     |     | Resistance Range(O) |         |
| SQM                                  | H±1.5        | W±1 | S±1 | SQM                 | RS+SQM  |
| 2W                                   | 20           | 12  | 8   | 0.1-8.0             | 81-50K  |
| 3W                                   | 25           | 12  | 8   | 0.1-180             | 181-50K |
| 5W                                   | 25           | 13  | 9   | 0.1-180             | 181-50K |
| 7W                                   | 39           | 13  | 9   | 0.1-430             | 431-47K |
| 10W                                  | 51           | 13  | 12  | 0.1-470             | 471-47K |
| 10WS                                 | 35           | 16  | 12  | 0.1-430             | 431-47K |



### SQH Type



| Type | Dimensions (mm) |      |       |     |     |       |        |        | Resistance Range (O) |         | Max Working Voltage |
|------|-----------------|------|-------|-----|-----|-------|--------|--------|----------------------|---------|---------------------|
| SQH  | A±1             | B±1  | L±1.5 | P±1 | H±1 | D±0.5 | Pi±0.2 | P2±0.2 | SQH                  | RS+SQH  |                     |
| 10W  | 10              | 9.0  | 48    | 32  | 21  | 5     | 2.5    | 2.0    | 0.1-500              | 500-50K | 500V                |
| 15W  | 12.5            | 11.5 | 48    | 32  | 21  | 5     | 2.5    | 2.0    | 1~1K                 | 1K-150K | 600V                |
| 20W  | 14.5            | 13.5 | 60    | 43  | 24  | 6     | 3.0    | 2.5    | 1~2K                 | 2K-150K | 700V                |
| 30W  | 19              | 19   | 75    | 56  | 29  | 6     | 3.0    | 2.5    | 1~2K                 |         | 700V                |
| 40W  | 19              | 19   | 90    | 67  | 29  | 6     | 3.0    | 2.5    | 2~3K                 |         | 700V                |
| 50W  | 19              | 19   | 90    | 67  | 29  | 6     | 3.0    | 2.5    | 2~3K                 |         | 700V                |

# Resistor

YZPST

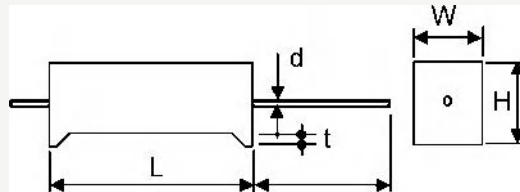
YANGZHOU POSITIONING TECH. CO., LTD

## Cement fixed resistors

### SQT Type

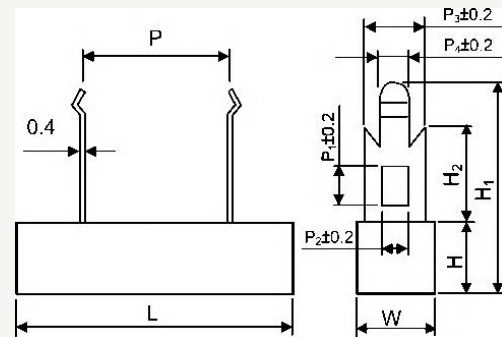
SQT CEMENT TYPE RESISTORS DIMENSIONS

| TYPE | DIMENSION (mm) |           |           |           | RESISTANCE RANGE |         |
|------|----------------|-----------|-----------|-----------|------------------|---------|
|      | H $\pm 1.5$    | W $\pm 1$ | L $\pm 1$ | t $\pm 1$ | SQT              | RS+SQM  |
| 3W   | 9              | 10        | 22        | 1.5       | 0.1-180          | 181-50K |
| 5W   | 9              | 10        | 22        | 1.5       | 0.1-180          | 181-50K |
| 7W   | 9              | 10        | 35        | 3.0       | 0.1-430          | 431-47K |
| 10W  | 9              | 10        | 48        | 3.0       | 0.1-470          | 471-47K |



### SQZ Type

| Type   | Dimensions (mm) |           |           |             |                |                |                |                |                        |                        | Resistance Range(O) |           |
|--------|-----------------|-----------|-----------|-------------|----------------|----------------|----------------|----------------|------------------------|------------------------|---------------------|-----------|
|        | L $\pm 1.5$     | W $\pm 1$ | H $\pm 1$ | P $\pm 1.5$ | P <sub>i</sub> | P <sub>2</sub> | P <sub>3</sub> | P <sub>4</sub> | H <sub>i</sub> $\pm 1$ | H <sub>2</sub> $\pm 1$ | SQZ                 | RS+SQZ    |
| 5W     | 25(28)          | 10        | 10        | 9.5(15)     | 4.2            | 2              | 5              | 1.5            | 25                     | 10.5                   | 0.1-130             | 131-50K   |
| 7W     | 36              | 10        | 10        | 20          | 4.2            | 2              | 5              | 1.5            | 25                     | 10.5                   | 0.1-430             | 431-50K   |
| 10W    | 48              | 10        | 10        | 32          | 4.2            | 2              | 5              | 1.5            | 25                     | 10.5                   | 0.2-470             | 471-50K   |
| 15W    | 48              | 12.5      | 12        | 32          | 4.2            | 2              | 5              | 1.5            | 26                     | 10.5                   | 1-600               | 601-150K  |
| 20.25W | 60              | 15        | 13        | 42          | 7.0            | 6              | 10             | 2.7            | 36                     | 15.0                   | 1-1K                | 1.1K-150K |



# Resistor

## More types of resistors

YZPST

YANGZHOU POSITIONING TECH. CO., LTD

### WIRE WOUND RESISTORS, FLAMEPROOF, ANTI-BURST

防爆炸繞線電阻器



#### Features

1. Fail-Safe without flames, explosion and arc when mains voltage 80~270V AC directly applied.
2. High Dielectric Withstanding Voltage up to 1KV.
3. Anti-Burst construction in a ceramic tube, resistant to humidity and insulation.
4. UL1412 approved.

#### 特色

1. 主電源直接搭接時，不會產生火花、爆炸及電弧現象。
2. 耐電壓能力可達 1KV。
3. 防爆炸管包裝，具耐濕及絕緣特性。
4. UL1412 認證。

### ELECTRICAL AND MECHANICAL PERFORMANCE

電氣及機械特性

| 特性 Characteristics                  | 規格書 Standards                                                                 | 試驗方法 Test Methods                                          |
|-------------------------------------|-------------------------------------------------------------------------------|------------------------------------------------------------|
| 阻值容許誤差 Resistance Tolerance         | ±5% (J)                                                                       | -                                                          |
| 溫度係數 Resistance Temp. Coeff.        | < 4500 ppm / °C                                                               | -55°C ~ 200°C                                              |
| 額定負載 Power Rating Load              | Surface temp. 275°C Max.<br>最高表面溫度 275°C, ΔR/R ≤ ±1%                          | Rated voltage for 30 minutes<br>額定電壓 / 30分鐘                |
| 短時間過負載 Short Time Overload          | ±2%                                                                           | 5 times of rated wattage for 5 seconds<br>5倍額定功率 / 5秒      |
| 耐電壓 Dielectric Withstanding Voltage | No evidence of mechanical damage or insulation breakdown.<br>無機械性能損壞現象及絕緣擊穿現象 | AC 1000V for 1 minutes<br>施加 AC 1000V 電壓 1 分鐘。             |
| 絕緣電阻 Insulation Resistance          | 1,000MΩ                                                                       | DC 500V megger                                             |
| 端子強度 Terminal Strength              | No evidence of mechanical damage.<br>無機械性能損壞現象                                | 1kg                                                        |
| 焊錫性 Solder-ability                  | Minimum 95% coverage<br>焊錫面積 ≥ 95%                                            | 235±5°C for 2 seconds                                      |
| 浸漬耐熱性 Resistance to Soldering Heat  | No evidence of mechanical damage.<br>無機械性能損壞現象, ΔR/R ≤ ±1%                    | 270±5°C for 10 ±1 seconds<br>350±10°C for 3.5 ±0.5 seconds |

### METAL FILM MELF RESISTORS

金屬膜片晶圓電阻器



#### Features

1. SMD enabled structure with excellent solder-ability.
2. Conformal multi-layer coating against Humidity.
3. 5% is 3-bands coded; 2% and under are 4-bands coded.

#### 特色

1. SMD 適用結構，具優良焊錫性能。
2. 多層塗層方式，具耐濕功能。
3. 5% 為 3 條色碼；2% 以下為 4 條色碼。

### ELECTRICAL AND MECHANICAL PERFORMANCE

電氣及機械特性

| 特性 Characteristics                  | 規格書 Standards                                                                 | 試驗方法 Test Methods                                          |
|-------------------------------------|-------------------------------------------------------------------------------|------------------------------------------------------------|
| 阻值容許誤差 Resistance Tolerance         | ±5% (J) / ±2% (G) / ±1% (F)                                                   | -                                                          |
| 溫度係數 Resistance Temp. Coeff.        | ±25 ppm / °C, ±50 ppm / °C, ±100 ppm / °C                                     | -55°C ~ 125°C                                              |
| 額定負載 Power Rating Load              | Surface temp. 125°C Max.<br>最高表面溫度 125°C, ΔR/R ≤ ±0.5%                        | Rated voltage for 30 minutes<br>額定電壓 / 30分鐘                |
| 短時間過負載 Short Time Overload          | ±0.5%                                                                         | 2.5 times of rated voltage for 5 seconds<br>2.5 倍額定電壓 / 5秒 |
| 耐電壓 Dielectric Withstanding Voltage | No evidence of mechanical damage or insulation breakdown.<br>無機械性能損壞現象及絕緣擊穿現象 | MM16MM204 : 200V AC<br>MM207MM52 : 500V AC                 |
| 絕緣電阻 Insulation Resistance          | 10,000MΩ                                                                      | DC 100V or 500V megger                                     |
| 焊錫性 Solder-ability                  | Minimum 95% coverage<br>焊錫面積 ≥ 95%                                            | 230±5°C for 5 seconds                                      |
| 浸漬耐熱性 Resistance to Soldering Heat  | No evidence of mechanical damage.<br>無機械性能損壞現象, ΔR/R ≤ ±1%                    | 260±5°C for 10 ±1 seconds                                  |

### POWER METAL FILM CHIP RESISTORS

電力型金屬膜片封裝電阻器



#### Features

1. Flameproof UL94V0 molded package, resistant to heat, humidity & insulation.
2. Special design for automatic surface mounting.
3. Excellent mechanical strength & electrical stability.
4. Reducing assembly costs.

#### 特色

1. 不燃性樹脂封裝成型，具高耐溫，耐濕及絕緣特性。
2. 特殊設計，專供自動表面貼裝作業。
3. 高安定性及高電氣特性。
4. 降低裝配費用。

### ELECTRICAL AND MECHANICAL PERFORMANCE

電氣及機械特性

| 特性 Characteristics                  | 規格書 Standards                                                                 | 試驗方法 Test Methods                                      |
|-------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------|
| 阻值容許誤差 Resistance Tolerance         | ±5% (J) or ±1% (F)                                                            | -                                                      |
| 溫度係數 Resistance Temp. Coeff.        | ±100 ppm / °C                                                                 | -55°C ~ 200°C                                          |
| 額定負載 Power Rating Load              | Surface temp. 275°C Max.<br>最高表面溫度 275°C, ΔR/R ≤ ±1%                          | Rated voltage for 30 minutes<br>額定電壓 / 30分鐘            |
| 短時間過負載 Short Time Overload          | ±0.5%                                                                         | 5 times of rated wattage for 5 seconds<br>5 倍額定功率 / 5秒 |
| 耐電壓 Dielectric Withstanding Voltage | No evidence of mechanical damage or insulation breakdown.<br>無機械性能損壞現象及絕緣擊穿現象 | AC 500V for 1 minutes<br>施加 AC 500V 電壓 1 分鐘            |
| 絕緣電阻 Insulation Resistance          | 10,000MΩ                                                                      | DC 500V megger                                         |
| 焊錫性 Solder-ability                  | Minimum 95% coverage<br>焊錫面積 ≥ 95%                                            | 235±5°C for 2 seconds                                  |
| 浸漬耐熱性 Resistance to Soldering Heat  | No evidence of mechanical damage.<br>無機械性能損壞現象, ΔR/R ≤ ±1%                    | 270±5°C for 10 ±1 seconds                              |

### POWER WIRE WOUND CHIP RESISTORS

電力型繞線封裝電阻器



#### Features

1. Flameproof UL94V0 molded package, resistant to heat, humidity & insulation.
2. Special design for automatic surface mounting.
3. Excellent mechanical strength & electrical stability.
4. Reducing assembly costs.

#### 特色

1. 不燃性樹脂封裝成型，具高耐溫，耐濕及絕緣特性。
2. 特殊設計，專供自動表面貼裝作業。
3. 高安定性及高電氣特性。
4. 降低裝配費用。

### ELECTRICAL AND MECHANICAL PERFORMANCE

電氣及機械特性

| 特性 Characteristics                  | 規格書 Standards                                                                 | 試驗方法 Test Methods                                      |
|-------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------|
| 阻值容許誤差 Resistance Tolerance         | ±5% (J) or ±1% (F)                                                            | -                                                      |
| 溫度係數 Resistance Temp. Coeff.        | ±200 ppm / °C                                                                 | -55°C ~ 200°C                                          |
| 額定負載 Power Rating Load              | Surface temp. 275°C Max.<br>最高表面溫度 275°C, ΔR/R ≤ ±1%                          | Rated voltage for 30 minutes<br>額定電壓 / 30分鐘            |
| 短時間過負載 Short Time Overload          | ±1%                                                                           | 5 times of rated wattage for 5 seconds<br>5 倍額定功率 / 5秒 |
| 耐電壓 Dielectric Withstanding Voltage | No evidence of mechanical damage or insulation breakdown.<br>無機械性能損壞現象及絕緣擊穿現象 | AC 500V for 1 minutes<br>施加 AC 500V 電壓 1 分鐘            |
| 絕緣電阻 Insulation Resistance          | 10,000MΩ                                                                      | DC 500V megger                                         |
| 焊錫性 Solder-ability                  | Minimum 95% coverage<br>焊錫面積 ≥ 95%                                            | 235±5°C for 2 seconds                                  |
| 浸漬耐熱性 Resistance to Soldering Heat  | No evidence of mechanical damage.<br>無機械性能損壞現象, ΔR/R ≤ ±1%                    | 270±5°C for 10 ±1 seconds                              |

Wire wound resistors,  
flameproof, anti-burst

Metal film melf resistors

Power metal film chip  
resistors

Power wire wound chip  
resistors



# YZPST Products - Litz wire

# Litz Wire

## Cable & litz wire

YZPST

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### Key Product types:

- 丝包线系列 Silk covered wire series
- 绝缘丝系列 Wire insulation series
- 电线电缆系列 Wire and cable series

### Enameled Copper Wire Series:



<https://www.yzpst.com/litz-wire/61941204.html>



[Click the link and send us your inquiries.](#)

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[info@yzpst.com](mailto:info@yzpst.com)

[www.yzpst.net](http://www.yzpst.net)

[info@yzpst.net](mailto:info@yzpst.net)

### Specification type:

- **SDTR** 单丝包圆铜线 Monofilament covered copper wire
- **SEDTR** 双丝包圆铜线 Double wire covered copper wire
- **SDQZ** 单丝包聚酯漆包圆铜线 Monofilament covered copper wire package polyester paint
- **SEDQZ** 双丝包聚酯漆包圆铜线 Double wire package poly ester paint covered copper wire
- **SDQA** 单丝包聚氨酯漆包圆铜线束 Monofilament covered copper wire bundle pack polyurethane paint
- **SEDQA** 双丝包聚氨酯漆包圆铜线 Double wire package polyurethane paint covered copper wire
- **SDQZJ** 单丝包聚酯多股线 Monofilament package more than polyester thread
- **SEDQZJ** 双丝包聚酯多股线 More than double wire package polyester Strands
- **SDQAJ** 单丝包聚氨酯多股线 Monofilament package polyurethane multi-strand line
- **SEDQAJ** 双丝包聚氨酯多股线 Double wire package polyurethane multi-strand line
- **SDQACC** 单丝包特种聚氨酯漆包圆铜线 Monofilament covered copper wire package special polyurethane paint
- **SEDQACC** 双丝包特种聚氨酯漆包圆铜线 Double wire bundle of special polyurethane paint covered copper wire

**Can produce other specifications according to customer's need of polyester silk covered wire**

### Production standard:

- $\Phi 0.07\text{mm} \sim 2.0\text{mm}$
- $\Phi(0.05 \sim 0.50\text{mm}) \times N$  Strand N:3 ~ 950

### Sectional area: Temperature class:

Less than  $4\text{mm}^2$  Level A ( $105^\circ\text{C}$ ), Level B ( $130^\circ\text{C}$ ),  
Level F ( $155^\circ\text{C}$ )

### Application:

Suitable for manufacturing various electronic instruments, meters, inductance components, and other occasions

### Product Standard: GB11018-89

The technical indicators of polyester silk covered wire meet the standard requirements

- The high frequency performance is good
- PU enameled wire as the core of polyester silk covered wire, has good welding performance, soldering temperature  $375^\circ\text{C} \pm 5^\circ\text{C}$

## Key parameters

| Diameter* Strand Number   | Measured breakdown voltage (V) | Maximal Resistance ( $\Omega/\text{m}$ at 20°C) | Enamel-insulated wire maximum overall diameter (mm) | Envelope of the maximum diameter (mm) | Actual diameter (mm) | Length per kg (M/kg) |
|---------------------------|--------------------------------|-------------------------------------------------|-----------------------------------------------------|---------------------------------------|----------------------|----------------------|
| 2UEW QA-1 0.16* 9         | >1700                          | 0.0902~0.1009                                   | 0.182                                               | 0.72                                  | 0.69                 | 615                  |
| 2UEW QA-1 0.12* 3         | >1500                          | 0.4755~0.5452                                   | 0.1390                                              | 0.32                                  | 0.30                 | 3300                 |
| 2UEW QA-1 0.15* 3         | >1700                          | 0.3073~0.3454                                   | 0.171                                               | 0.39                                  | 0.37                 | 2100                 |
| 2UEW/F+1NY SEDQAJ 0.12* 3 | >1800                          | 0.4755~0.5452                                   | 0.139                                               | 0.36                                  | 0.325                | 3200                 |

| Diameter* Strand Number           | Measured breakdown voltage (V) | Maximal Resistance ( $\Omega/\text{m}$ at 20°C) | Copper section ( $\text{mm}^2$ ) | Envelope of the maximum diameter (mm) |
|-----------------------------------|--------------------------------|-------------------------------------------------|----------------------------------|---------------------------------------|
| Litz Wire 2UEW+2NY QA-1 0.07* 600 | >900                           | 0.0067~0.0089                                   | 2.3079                           | 2.76                                  |
| Litz Wire 2UEW+NY QA-1 0.07* 135  | >900                           | 0.030~0.0395                                    | 0.496                            | 1.33                                  |
| Litz Wire 2UEW+NY QA-1 0.10* 160  | >1000                          | 0.0127~0.0159                                   | 1.256                            | 2.03                                  |
| Litz Wire 2UEW QA-1 0.07* 600     | >600                           | 0.0067~0.0089                                   | 2.3079                           | 2.71                                  |

| Conductor Diameter* Strand Number | Measured breakdown voltage (V) | Maximal Resistance ( $\Omega/\text{m}$ at 20°C) | Copper section ( $\text{mm}^2$ ) | Envelope of the maximum diameter (mm) | Actual diameter (mm) | Length per kg (M/kg) |
|-----------------------------------|--------------------------------|-------------------------------------------------|----------------------------------|---------------------------------------|----------------------|----------------------|
| 1UEW+NY QA-2 0.05* 500            | >1000                          | 0.0158~0.0207                                   | 0.98                             | 1.96                                  | 1.87                 | 105                  |
| 1UEW+NY QA-2 0.05* 1000           | >1000                          | 0.0079~0.0104                                   | 1.9600                           | 2.75                                  | 2.64                 | 54                   |
| 1UEW+NY QA-2 0.05* 2000           | >1000                          | 0.004~0.0052                                    | 3.92                             | 3.87                                  | 3.75                 | 25                   |
| 2UEW+NY QA-1 0.10* 200            | >1000                          | 0.0102~0.0127                                   | 1.5700                           | 2.26                                  | 2.10                 | 70                   |

| Conductor Diameter* Strand Number            | Measured breakdown voltage (V) | Maximal Resistance ( $\Omega/\text{m}$ at 20°C) | Copper section ( $\text{mm}^2$ ) | Envelope of the maximum diameter (mm) | Actual diameter (mm) | length per kg (M/kg) |
|----------------------------------------------|--------------------------------|-------------------------------------------------|----------------------------------|---------------------------------------|----------------------|----------------------|
| Litz Wire 3.8*3.50 2UEW+2NY SEDQAJ 0.10* 350 | >900                           | 0.0058~0.0073                                   | 2.7475                           | 3.02                                  | 2.87                 | 40                   |

| Conductor Diameter* Strand Number | Measured breakdown voltage (V) | Resistance ( $\Omega/\text{m}$ ) | Enamel-insulated wire maximum overall diameter (mm) | Envelope of the maximum diameter (mm) | Actual diameter (mm) |
|-----------------------------------|--------------------------------|----------------------------------|-----------------------------------------------------|---------------------------------------|----------------------|
| 2UEW 0.08* 40                     | >700                           | 0.0783~0.0972                    | 0.092                                               | 0.8                                   | 0.76                 |
| 2UEW 0.10* 40                     | >1000                          | 0.0509~0.0613                    | 0.117                                               | 0.99                                  | 0.93                 |

| Conductor Diameter* Strand Number | Measured breakdown voltage (V) | Maximal Resistance ( $\Omega/\text{m}$ at 20°C) | Copper section ( $\text{mm}^2$ ) | Envelope of the maximum diameter (mm) | Actual diameter (mm) | Length per kg (M/kg) |
|-----------------------------------|--------------------------------|-------------------------------------------------|----------------------------------|---------------------------------------|----------------------|----------------------|
| 2UEW+NY QA-1 0.07* 24             | >700                           | 0.1687~0.2078                                   | 0.092316                         | 0.58                                  | 0.51                 | 1190                 |
| 2UEW+NY QA-1 0.07* 26             | >700                           | 0.1558~0.1976                                   | 0.1000                           | 0.6                                   | 0.52                 | 1150                 |

| Conductor Diameter* Strand Number | Measured breakdown voltage (V) | Maximal Resistance ( $\Omega/\text{m}$ at 20°C) | Copper section ( $\text{mm}^2$ ) | Envelope of the maximum diameter (mm) | Actual diameter (mm) | Length per kg (M/kg) |
|-----------------------------------|--------------------------------|-------------------------------------------------|----------------------------------|---------------------------------------|----------------------|----------------------|
| 2UEW+NY QA-1 0.04* 2390           | >400                           | 0.0051~0.0068                                   | 3.0018                           | 3.21                                  | 3.12                 | 35                   |
| 2UEW+NY QA-1 0.04* 3980           | >400                           | 0.0031~0.0041                                   | 4.9988                           | 4.13                                  | 4.02                 | 20                   |
| 2UEW+NY QA-1 0.04* 980            | >400                           | 0.0125~0.0166                                   | 1.23                             | 2.07                                  | 2                    | 90                   |
| 1UEW+NY QA-2 0.05* 1530           | >900                           | 0.0052~0.0068                                   | 3.0026                           | 3.39                                  | 3.3                  | 30                   |
| 1UEW+NY QA-2 0.05* 2540           | >900                           | 0.0031~0.0041                                   | 4.9847                           | 4.35                                  | 4.25                 | 21                   |
| 1UEW+NY QA-2 0.05* 680            | >900                           | 0.0117~0.0152                                   | 1.3345                           | 2.27                                  | 2.14                 | 84                   |

| Conductor Diameter* Strand Number                 | Measured breakdown voltage (V) | Maximal Resistance ( $\Omega/\text{m}$ at 20°C) | Copper section ( $\text{mm}^2$ ) | Envelope of the maximum diameter (mm) | Actual diameter (mm) | Length per kg (M/kg) |
|---------------------------------------------------|--------------------------------|-------------------------------------------------|----------------------------------|---------------------------------------|----------------------|----------------------|
| Litz Wire 4.1*8.00 2UEW+FR+2 SEDQAJ 0.07* 800     | >900                           | 0.00581~0.0067                                  | 3.0772                           | 3.22                                  | 2.95                 | 35                   |
| Litz Wire 4.1*16.0 2UEW+FR+2 SEDQAJ+FR 0.07* 1600 | >6000                          | 0.0025~0.0033                                   | 6.1244                           | 4.9                                   | 4.4                  | 12.2                 |
| Litz Wire 3.8*8.00 2UEW+FR+2 SEDQAJ+FR 0.10* 800  | >6800                          | 0.0025~0.0032                                   | 6.28                             | 4.95                                  | 4.46                 | 12                   |

| Conductor Diameter* Strand Number | Measured breakdown voltage (V) | Maximal Resistance ( $\Omega/\text{m}$ at 20°C) | Copper section ( $\text{mm}^2$ ) | Envelope of the maximum diameter (mm) | Actual diameter (mm) | Length per kg (M/kg) |
|-----------------------------------|--------------------------------|-------------------------------------------------|----------------------------------|---------------------------------------|----------------------|----------------------|
| 2UEW+NY QA-1 0.04* 2390           | >400                           | 0.0051~0.0068                                   | 3.0018                           | 3.21                                  | 3.12                 | 35                   |
| 2UEW+NY QA-1 0.04* 3980           | >400                           | 0.0031~0.0041                                   | 4.9988                           | 4.13                                  | 4.02                 | 20                   |
| 2UEW+NY QA-1 0.04* 980            | >400                           | 0.0125~0.0166                                   | 1.23                             | 2.07                                  | 2                    | 90                   |
| 1UEW+NY QA-2 0.05* 1530           | >900                           | 0.0052~0.0068                                   | 3.0026                           | 3.39                                  | 3.3                  | 30                   |
| 1UEW+NY QA-2 0.05* 2540           | >900                           | 0.0031~0.0041                                   | 4.9847                           | 4.35                                  | 4.25                 | 21                   |
| 1UEW+NY QA-2 0.05* 680            | >900                           | 0.0117~0.0152                                   | 1.3345                           | 2.27                                  | 2.14                 | 84                   |

# Litz Wire

## Cable & litz wire

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<https://www.yzpst.com/litz-wire/61941205.html>

<https://www.yzpst.net/cable-and-litz-wire-division-15880386379536994.html>

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**YZPST Products**

-

**Parts for LED driver**

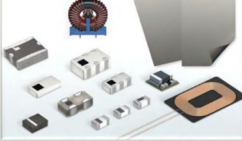
# Parts for LED Driver

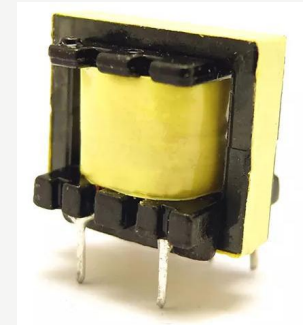
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## Product index

<https://www.yzpst.net/power-inductor-ypst-dr810-15880397208984741.html>

|                                                                                                                                            |                                                                                                                                                      |                                                                                                                                                             |                                                                                                                                                |                                                                                                                                                    |                                                                                                                                                  |                                                                                                                                                           |                                                                                                                                                       |
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| <br><b>HDR</b><br>Unshielded Axes chokes Page 47-52        | <br><b>HDRC</b><br>Shielded Axes chokes Page 53-57                  | <br><b>HEC</b><br>Unshielded Axes chokes Page 58-60                        | <br><b>HLFC</b><br>Power Line chokes Page 61-62               | <br><b>HFVR</b><br>Ring inductor VR series page 81                | <br><b>HLUU</b><br>Power Line filter UU series page 82-83       | <br><b>HWIC/F</b><br>Wire wound chip inductor series page 84-90         | <br><b>HACM</b><br>High frequency common filters series page 91-92 |
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<https://www.yzpst.net/ee16-transformer-15880403541108107.html>

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# Parts for LED Driver

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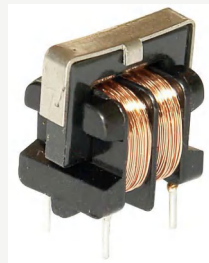
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<https://www.yzpst.net/toroidal-choke-coils-15880391708106209.html>

**Choke**



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**Filter**



<https://www.yzpst.net/power-inductor-ypst-dr810-15880397208984741.html>

**Inductor**



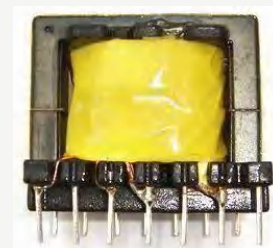
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**Ferrite**



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**Toroid**



<https://www.yzpst.net/ee16-transformer-15880403541108107.html>

**Transformer**

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# YZPST Certifications

EO Certificate, UL Certificate, CE Certificate, RoHS Certificate and ISO9001 Certificate

PART THREE

YZPST.

**YANGZHOU POSITIONING TECH. CO., LTD**



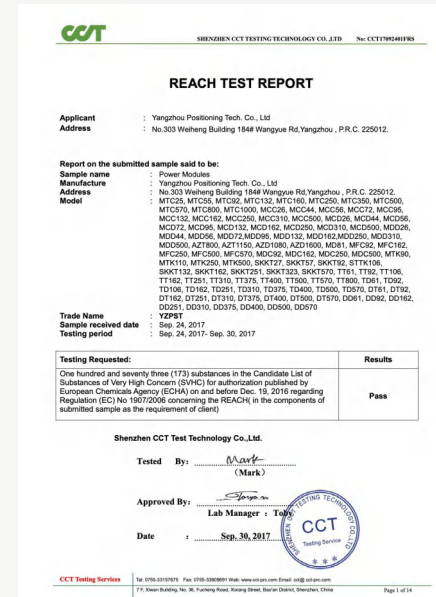
# AEO Certificate



# CE Certificate



# ISO 9001 Certificate



# REACH Certificate

# YZPST Services

OEM

One-Stop Solutions

PART FOUR



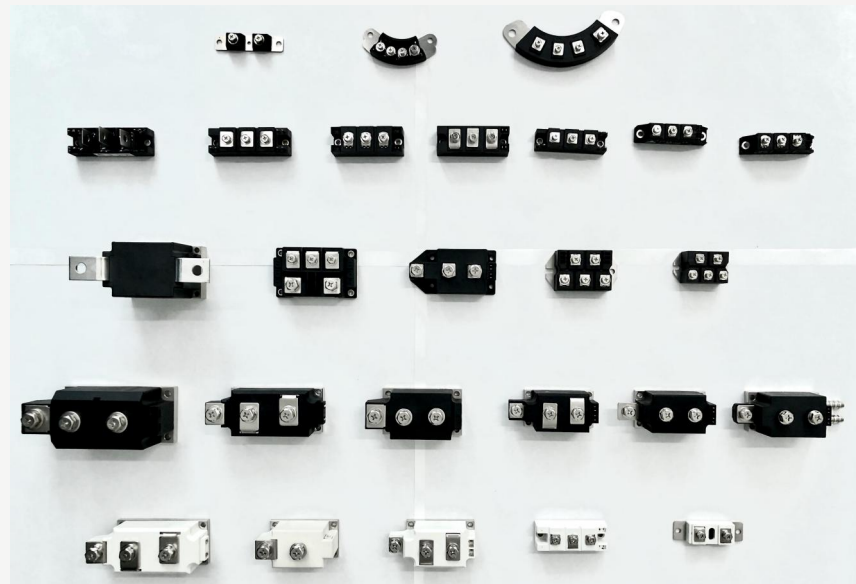
# YZPST Services - OEM

### Advanced Technology to Ensure Competitive Advantage

YZPST (Yangzhou Positioning Group) is a strong partner for OEM business, because YZPST concentrates the **most extensive electronic component technology portfolio** in China. This gives customers the assurance that they always choose the best solution for their application without any restrictions.

All key technologies are specially developed and integrated by YZPST. On the one hand, this ensures the flexibility to achieve adaptation quickly; Most Importantly, the **in-depth expertise** enables solutions that are not only industrially new but also unconventional.

Production and testing are performed exclusively at YZPST, so we can adapt to customer expectations and needs to ensure that **customized products** are proprietary to our customers.



<https://www.yzpst.net/yangzhou-positioning-tech-co-ltd-service.html>



<https://www.yzpst.net/yangzhou-positioning-tech-co-ltd-service.html>

## Why Choose YZPST

YZPST is ideally positioned as a **medium-sized company in high-tech** China. The company's size can respond quickly and flexibly to customer requirements, while also providing the reliability and safety of established and tested processes. YZPST is also known for the **high quality of its products and the global reliability** of its customer relationships.

- **Global Account Management:** Connect closely With Customers regards to International Business
- According to the task: from components to finished assembly products.
- Competitive Advantages from **Unconventionally Skilled Solutions**
- Series **producing tens to millions of units in the shortest time**
- Manufacturing and testing capabilities from functional samples to mass production
- Located in Jiangsu, China, quality production
- Best answer for every positioning and motion task
- Continuous improvement process
- **More than 30 years of experience in custom solutions**

### Reliability Starts at the Design Stage

Each recommended solution can be **individually adjusted for customer and application-specific requirements in terms of size, compatibility and functionality**. The ultimate goal is to **provide an optimal solution that best fits the customer's application**. When choosing the right technology, YZPST will pay attention to the corresponding guidelines of customers.

The economic efficiency of the solution concept is an important point, and care must be taken when considering the applicability of the technology.

YZPST focuses on safety during the design phase. Therefore, according to the characteristics of different components and industry standards, **simulation is taken place on various application scenarios for safety design and put into the production of specific products**.

YZPST products comply with **specific, currently applicable IEC directives**.

Certification is available on request.

If necessary, YZPST supports its customers during the production process with an "copy exactly" strategy.



<https://www.yzpst.net/yangzhou-positioning-tech-co-ltd-service.html>



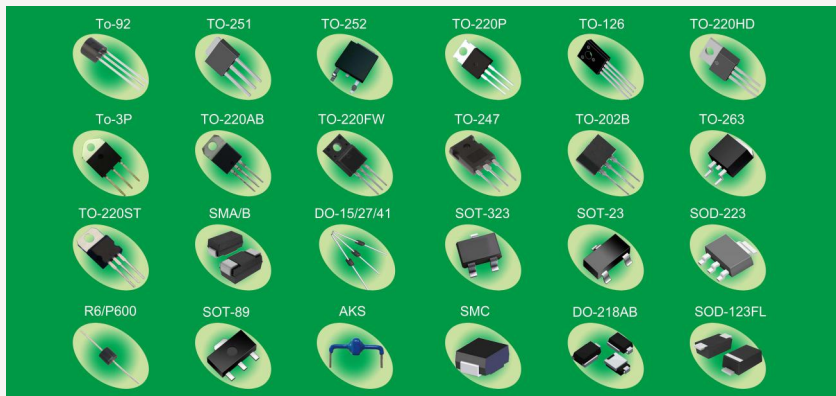
### Flexibility in Mass Production Provides OEM with a Large Quantity

Options in Mass Production that lead to good relationship with OEM customers:

- **Flexibility to adapt manufacture** from a single unit to production if quantity > 1000
- Change production **quickly and directly**
- Traceability of production batches and individual products
- Large series of database-supported process control
- A **complete set of qualification data** for each unit

### Level of Integration

YZPST is a leading supplier of various components. Semiconductor, capacitor, resistors, fuse and other components can be optimized and integrated according to customer requirements. With production capacity for bulk supply.



<https://www.yzpst.net/yangzhou-positioning-tech-co-ltd-service.html>



**YZPST Services**

-

**One-Stop Solutions**

## One-Stop Solution - Electrochemical Energy Storage

### For Inverters in the Electrochemical Energy Storage System

YZPST takes power semiconductor components as the main line. Combined with full capability of supply chain for power inverters, elaborate power semiconductor triacs, IGBT, IGBT modules, transformers, DC-link capacitors and other products, to provide customers with one-stop solution. Our products are exported to Europe, America, South America, Middle East and Asia.

- IGBT
- IGBT modules
- DC-Link capacitor
- Schottky rectifier
- Transformers



<https://www.yzpst.net/yangzhou-positioning-tech-co-ltd-solutions.html>

## One-Stop Solution - New Energy Vehicles/ Wind Power

### For Completed Power Capacitor Bank System

YZPST takes power capacitor components as the main line. Combined with many years of experience designing the whole system of power transmission base station, elaborate power semiconductor components, fuse, high frequency water cooled tank shape power capacitor, voltage/ current transformers and other products, to provide customers with one-stop solution. Our products are exported to Europe, America, South America, Middle East and Asia.

- Power Capacitor
- Fuse
- Transformer



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## One-Stop Solution - New Energy Vehicles/ Wind Power

### For devices used for New Energy Vehicles and Wind Power Station

YZPST takes power semiconductor components as the main line. Combined with strong integration of supply chain in power electronic components field, elaborate power thyristor, module, IGBT, film/ shunt capacitors and other products, to provide customers with one-stop solution. Our products are exported to Europe, America, South America, Middle East and Asia.

- IGBT
- Thyristor
- Film capacitor
- Power module
- Shunt capacitor



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## One-Stop Solution - Induction Furnace Spare Parts

### For Iron & Steel Smelting, Casting, Medium Frequency Furnace, Inductive Heating Accessories

YZPST takes power semiconductor components as the main line. Combined with steel smelting, casting, induction heating accessories characteristics, elaborate power semiconductor components, semiconductor fuse, medium frequency water cooled tank shape power capacitor, varistor and other products, to provide customers with one-stop solution. Our products are exported to Europe, America, South America, Middle East and Asia.

- Power Semiconductor Key List
  - Thyristor
  - Diode
  - Module
  - IGBT
- Medium Frequency Water Cooled Tank Shape Power Capacitor
- DC Capacitor
- Semiconductor Fuse
- Power Resistor
- Temperature Sensors
- Varistor
- Induction Furnace Controller Board
- Induction Furnace Epoxy Resin Board & Rod

[Click the link and send us your inquiries.](#)

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## One-Stop Solution - Home Appliance

### For White Goods/ Home Appliance

YZPST takes power semiconductor components as the main line. Combined with voltage ruggedness and reliability characteristics, elaborate SCR, TRIAC and high voltage diode to provide customers with one-stop solution. Our products are exported to Europe, America, South America, Middle East and Asia.

- SCR
- TRIAC
- High Voltage Diode



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## One-Stop Solution - Welding Machine Special Device

### For Welding Application

YZPST takes power semiconductor components as the main line. Combined with high current density, very low on-state voltage drop and ultra-low thermal resistance elaborate welding diode, welding thyristor, welding transformers and ferrites to provide customers with one-stop solution. Our products are exported to Europe, America, South America, Middle East and Asia.

- Welding Diode
- Welding Transformer
- Welding Thyristor
- Ferrites



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## One-Stop Solution - 5G Communication Base Station

### For 5G Communication Infrastructures

YZPST takes power semiconductor components as the main line. Combined with communication accessories characteristics, elaborate power semiconductor components, semiconductor fuse, high frequency water cooled tank shape power capacitor, Surge Protective Device and other products, to provide customers with one-stop solution. Our products are exported to Europe, America, South America, Middle East and Asia.

- Rectifier Assembly
- Semiconductor Fuse
- HF Capacitor



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## One-Stop Solution - Industrial Robots/ Motion Control/ Solar Power

### For Automation/ Solar Power

YZPST takes power semiconductor components as the main line. Combined with optimum power handling capability, elaborate diode, Semiconductor fuse, module, thyristor and transistor to provide customers with one-stop solution. Our products are exported to Europe, America, South America, Middle East and Asia.

- Diode
- Semiconductor Fuse
- Module
- Thyristor
- Transistor



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## One-Stop Solution - Locomotive Electronics

### For Railway Locomotive, High Speed Train and Subways

YZPST takes power semiconductor components as the main line. Combined with monolithic integration of fast thyristor and fast diode, small size and less weight, high reliability, less on-state losses elaborate SCRs, TRIACs, Litz Wire and Automotive (Press Fit) Diodes to provide customers with one-stop solution. Our products are exported to Europe, America, South America, Middle East and Asia.

- SCRs
- TRIACs
- Litz Wire
- Automotive (Press Fit) Diodes



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## One-Stop Solution - Medical Equipment

### For X-Ray Machine, CT Machine, Nebulizer and Medical Humidifier

YZPST takes power semiconductor components as the main line. Combined with blocking capability up to 6000 Volts and optimized to offer low conduction losses elaborate High Voltage Diode and Conductive Polymer Aluminum Solid Capacitors to provide customers with one-stop solution. Our products are exported to Europe, America, South America, Middle East and Asia.

Products range:

- High voltage diodes
- High Frequency High Voltage Diode
- High Voltage Silicon Stack



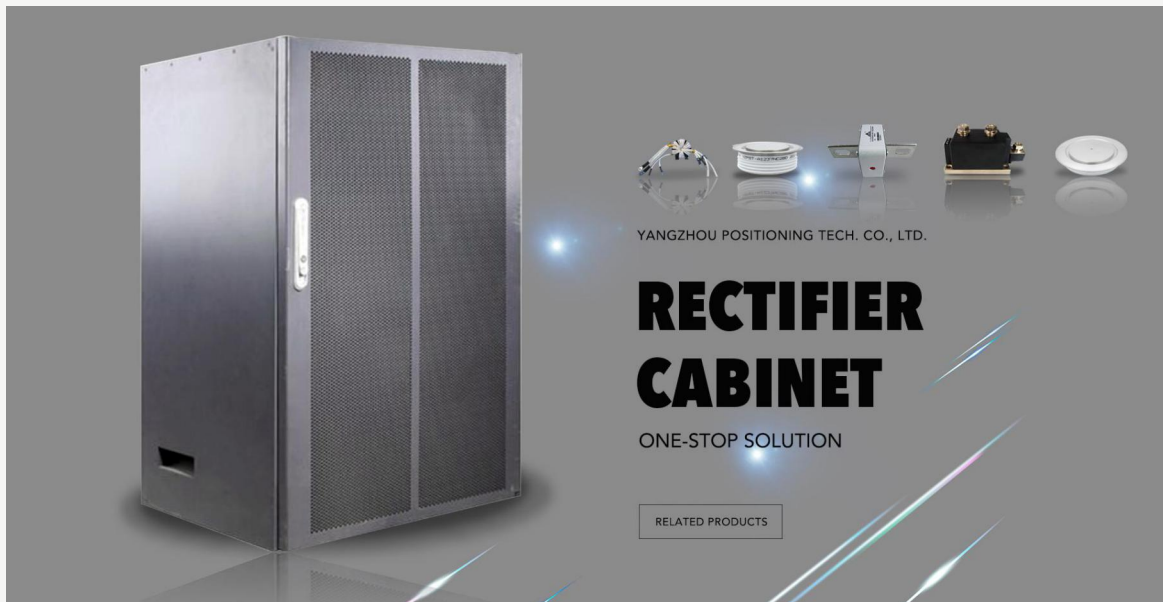
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## One-Stop Solution - Rectifier Cabinet

### For Rectifier Application

YZPST takes power semiconductor components as the main line. Combined with optimum power handling capability elaborate thyristor, diode, module and semiconductor fuse to provide customers with one-stop solution. Our products are exported to Europe, America, South America, Middle East and Asia.

- Diode
- Module
- Thyristor
- Semiconductor Fuse



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# Contact Us



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# Yangzhou Positioning Tech Co., Ltd

# Thank you



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Manufacturing & Exportation

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