

TO-92 Plastic-Encapsulate Transistors

P/N: YZPST-2SB888

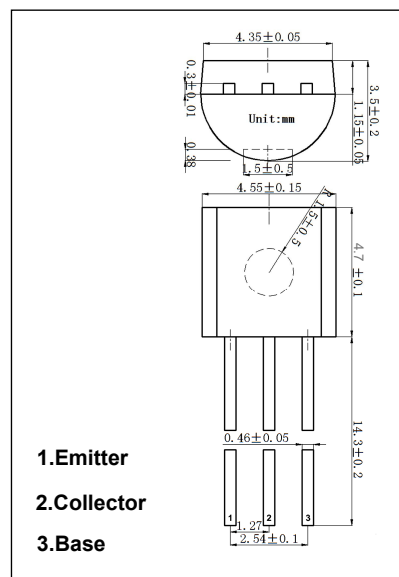
PNP Epitaxial Planar Silicon Darlington Transistor

Applications

- Motor drivers, printer hammer drivers, relay drivers, voltage regulator control.

Features

- High DC current gain (5000 or greater).
- Large current capacity and wide ASO.
- Low saturation voltage : $V_{CE(sat)} = -0.8V$ typ.



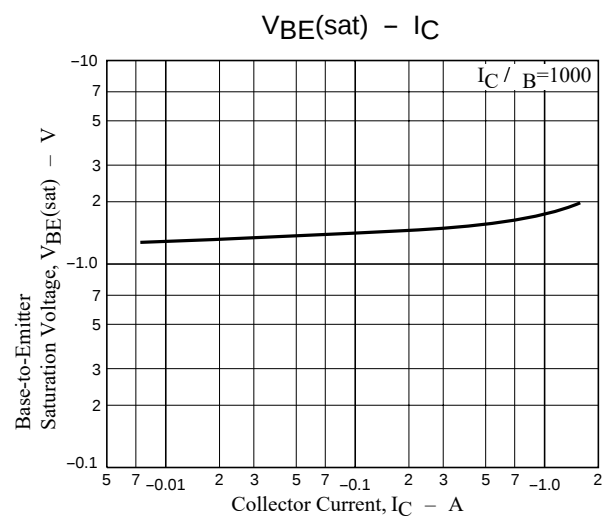
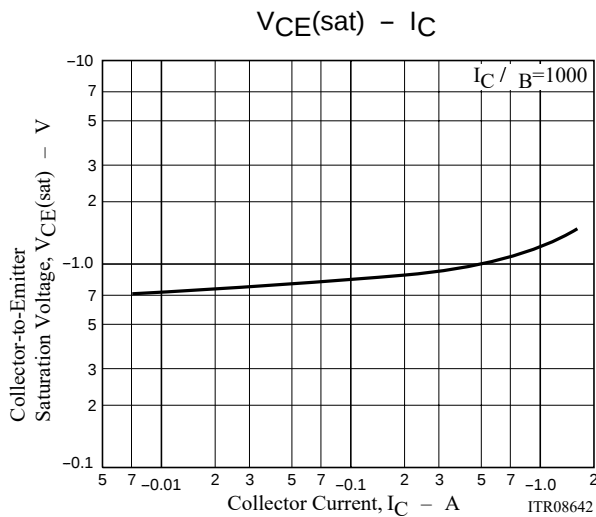
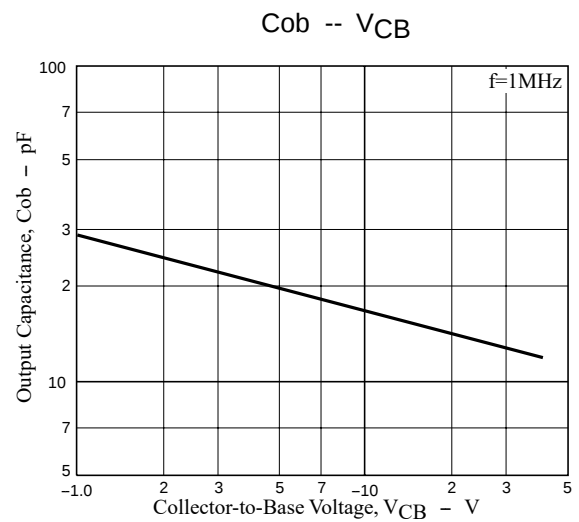
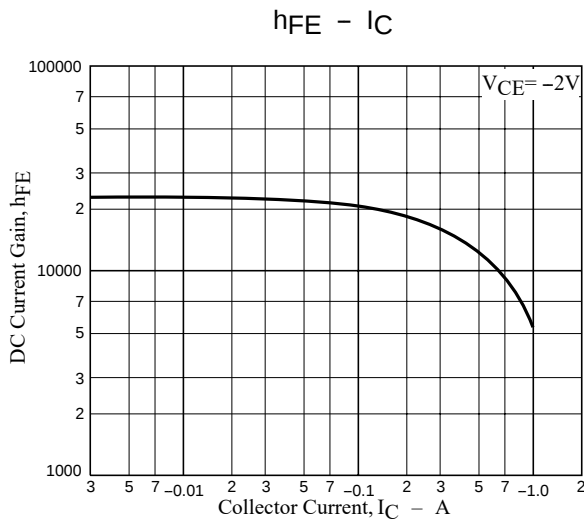
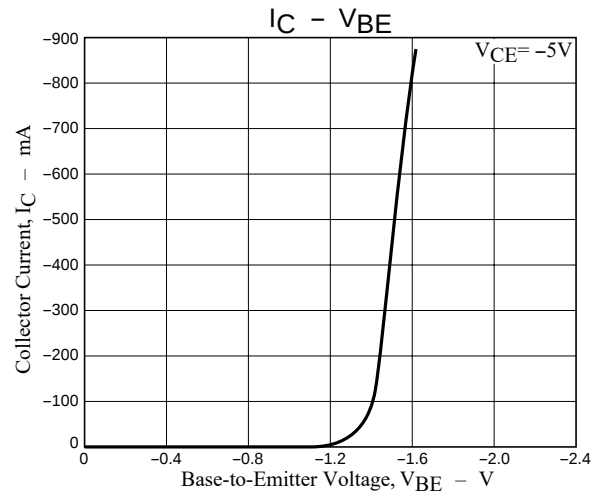
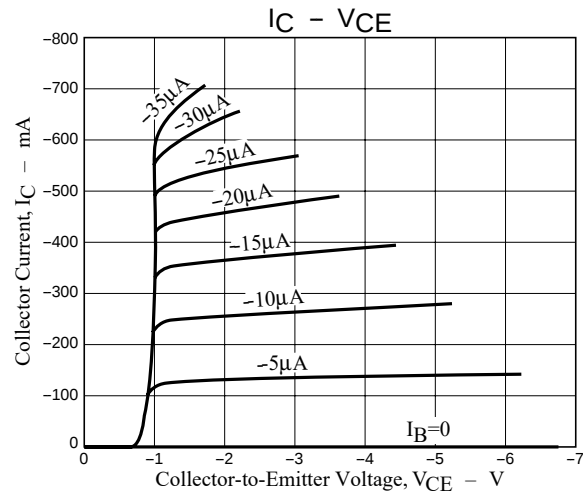
Absolute Maximum Ratings at $T_a = 25^\circ C$

Symbol	Parameter	Conditions	Ratings	Unit
V_{CBO}	Collector-to-Base Voltage		-80	V
V_{CEO}	Collector-to-Emitter Voltage		-50	V
V_{EBO}	Emitter-to-Base Voltage		-10	V
I_C	Collector Current		-0.7	A
I_{CP}	Collector Current (Pulse)		-2	A
P_C	Allowable Collector Dissipation		600	mW
T_j	Junction Temperature		150	$^\circ C$
T_{stg}	Storage Temperature		-55 to +150	$^\circ C$

Electrical Characteristics at $T_a = 25^\circ C$

Symbol	Parameter	Conditions	Ratings			Unit
			min	typ	max	
I_{CBO}	Collector Cutoff Current	$V_{CB} = -40V, I_E = 0$			-0.1	μA
I_{EBO}	Emitter Cutoff Current	$V_{EB} = -8V, I_C = 0$			-0.1	μA
h_{FE1}	DC Current Gain	$V_{CE} = -2V, I_C = -50mA$	5000			
h_{FE2}		$V_{CE} = -2V, I_C = -500mA$	3000			
f_T	Gain-Bandwidth Product	$V_{CE} = -5V, I_C = -50mA$		170		MHz
C_{ob}	Output Capacitance	$V_{CB} = -10V, f = 1MHz$		16		pF
$V_{CE(sat)}$	Collector-to-Emitter Saturation Voltage	$I_C = -100mA, I_B = -0.1mA$		-0.8	-1.2	V
$V_{BE(sat)}$	Base-to-Emitter Saturation Voltage	$I_C = -100mA, I_B = -0.1mA$		-1.3	-2.0	V
$V_{(BR)CBO}$	Collector-to-Base Breakdown Voltage	$I_C = -10\mu A, I_E = 0$	-80			V
$V_{(BR)CEO}$	Collector-to-Emitter Breakdown Voltage	$I_C = -1mA, R_{BE} = \infty$	-50			V
$V_{(BR)EBO}$	Emitter-to-Base Breakdown Voltage	$I_E = -10\mu A, I_C = 0$	-10			V

Typical Characteristics



Typical Characteristics

