

Features

- Halogen Free. "Green" Device (Note 1)
- · Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

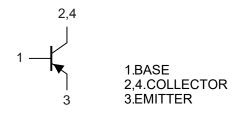
Maximum Ratings @ 25°C Unless Otherwise Specified

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 250°C/W Junction to Ambient

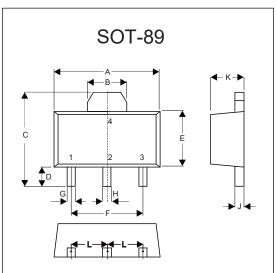
Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V _{CBO}	-60	V
Collector-Emitter Voltage	V _{CEO}	-60	V
Emitter-Base Voltage	V _{EBO}	-5	V
Collector Current	Ic	-1.0	Α
Collector Power Dissipation	P _C	500	mW

Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Internal Structure

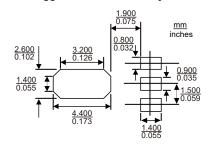


PNP Plastic Encapsulate Transistors



DIMENSIONS					
DIM		M	М	NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOTE
Α	0.169	0.185	4.30	4.70	
В	0.061		1.55		TYP.
С	0.154	0.171	3.91	4.35	
D	0.031	0.047	0.80	1.20	
E	0.089	0.104	2.25	2.65	
F	0.118		3.00		TYP.
G	0.013	0.020	0.33	0.52	
Н	0.015	0.021	0.38	0.53	
J	0.014	0.017	0.35	0.44	
K	0.055	0.063	1.40	1.60	
L	0.059		1.	50	TYP.

Suggested Solder Pad Layout





Electrical Characteristics @ 25°C Unless Otherwise Specified

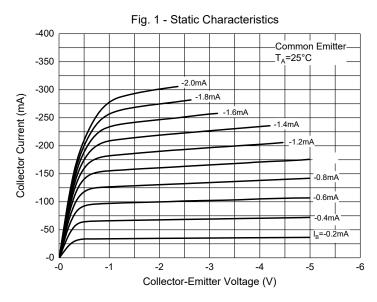
Parameter	Symbol	Min	Тур	Max	Units	Conditions
Collector-Base Breakdown Voltage	V _{(BR)CBO}	-60			V	I _C =-100μA, I _E =0
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	-60			V	I _C =-1mA, I _B =0
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	-5			V	I _E =-100μA, I _C =0
Collector-Base Cutoff Current	I _{CBO}			-0.1	μA	V_{CB} =-30V, I_{E} =0
Emitter-Base Cutoff Current	I _{EBO}			-0.1	μA	V _{EB} =-5.0V, I _C =0
	h _{FE(1)}	63		250		V _{CE} =-2.0V, I _C =-150mA
DC Current Gain	h _{FE(2)}	63				V _{CE} =-2.0V, I _C =-5mA
	h _{FE(3)}	40				V _{CE} =-2.0V, I _C =-500mA
Collector-Emitter Saturation Voltage	V _{CE(sat)}			-0.5	V	I _C =-500mA, I _B =-50mA
Base-Emitter Voltage	V_{BE}			-1	V	V _{CE} =-2.0V, I _C =-500mA
Transition Frequency	f _T		50		MHz	V _{CE} =-5.0V, I _C =-10mA, f=100MHz

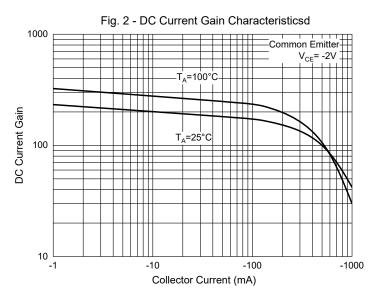
Classification of $h_{\text{FE}(1)}$

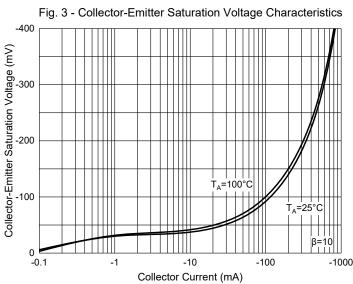
Rank	BCX52	BCX52-10	BCX52-16
Range	63~250	63~160	100~250
Marking	AE	AG	AM

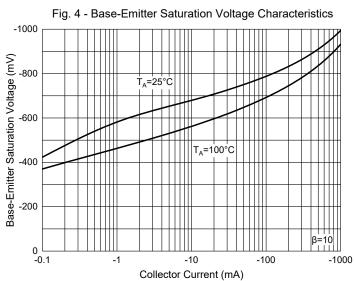


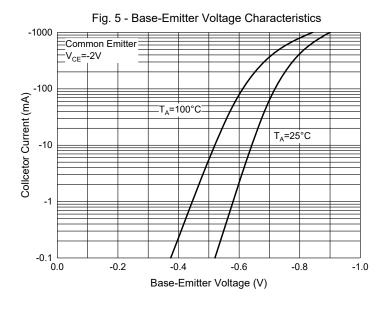
Curve Characteristics

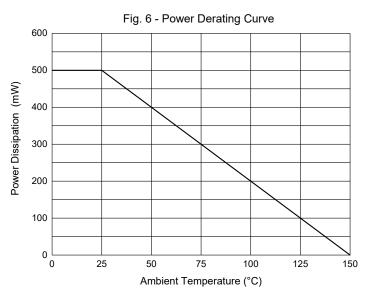














Ordering Information

Device	Packing
Part Number-TP	Tape&Reel:1Kpcs/Reel

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