

## **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

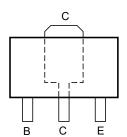
Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V <sub>CBO</sub>	-40	V
Collector-Emitter Voltage	V <sub>CEO</sub>	-32	V
Emitter-Base Voltage	V <sub>EBO</sub>	-5.0	V
Maxmium Collector Current	I <sub>CM</sub>	-2.0	Α
Collector Power Dissipation	Pc	500	mW

## Classification Of h<sub>FE</sub>

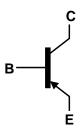
	. –		
Rank	Р	Q	R
Range	82-180	120-270	180-390
Marking	BCP	BCQ	BCR

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

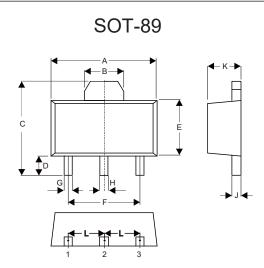
## Pin Configuration - Top View



## Internal Structure

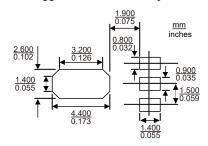


# PNP Plastic Encapsulate Transistors



NSIONS	
MM	NOTE
MIN MA	X
.30 4.70	)
1.55	TYP.
.91 4.3	5
.80 1.20	)
2.6	5
3.00	TYP.
0.52	2
.38 0.53	3
0.44	1
.40 1.60	)
1.50	TYP.
	MIN MA30 4.70 1.55 .91 4.38 .80 1.20 .25 2.66 .3.00 .33 0.52 .38 0.53 .35 0.44 .40 1.60

## Suggested Solder Pad Layout





# Electrical Characteristics @ 25°C Unless Otherwise Specified

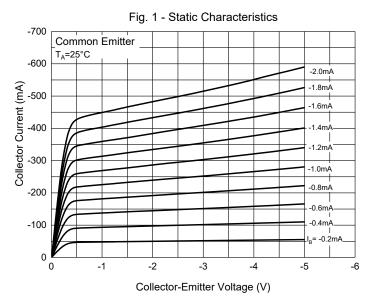
Parameter	Symbol	Min	Тур	Max	Units	Conditions
Collector-Base Breakdown Voltage	V <sub>(BR)CBO</sub>	-40			V	I <sub>C</sub> =-50μA, I <sub>E</sub> =0
Collector-Emitter Breakdown Voltage	V <sub>(BR)CEO</sub>	-32			V	I <sub>C</sub> =-1mA, I <sub>B</sub> =0
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	-5.0			V	I <sub>E</sub> =-50μA, I <sub>C</sub> =0
Collector-Base Cutoff Current	I <sub>CBO</sub>			-1.0	μA	$V_{CB}$ =-20V, $I_{E}$ =0
Emitter-Base Cutoff Current	I <sub>EBO</sub>			-1.0	μA	V <sub>EB</sub> =-4.0V, I <sub>C</sub> =0
DC Current Gain (Note2)	h <sub>FE</sub>	82		390		$V_{CE}$ =-3.0V, $I_{C}$ =-0.5A
Collector-Emitter Saturation Voltage (Note2)	V <sub>CE(sat)</sub>			-0.8	V	I <sub>C</sub> =-2A, I <sub>B</sub> =-0.2A
Transition Frequency	f <sub>T</sub>		80		MHz	$V_{CE}$ =-5.0V, $I_{C}$ =-0.5A, f=30MHz
Collector Output Capacitance	C <sub>ob</sub>			65	pF	V <sub>CB</sub> =-10V, I <sub>E</sub> =0, f=1.0MHz

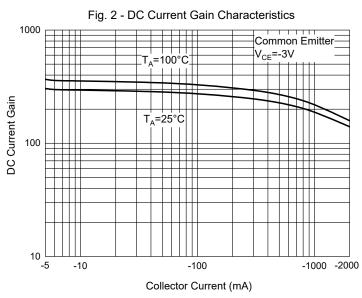
Note 2. Measured Using Pulse Current.

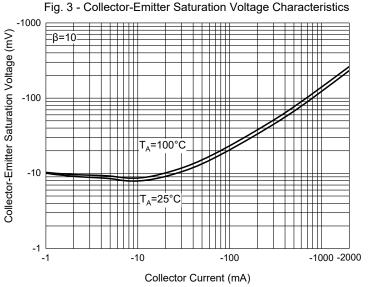
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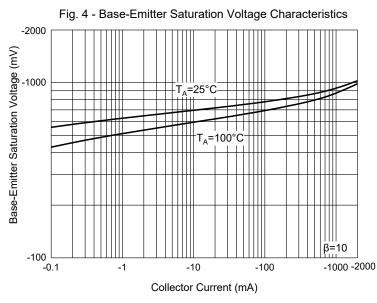


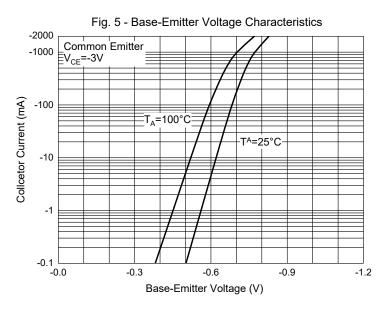
## **Curve Characteristics**

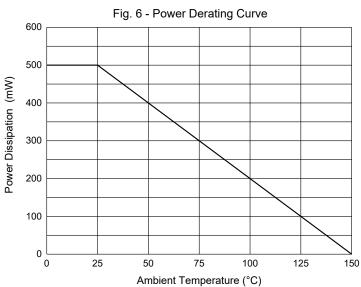














## **Ordering Information**

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

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