

Features

- · High Speed Switching Time
- 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}	-50	V
Collector-Emitter Voltage	V _{CEO}	-50	V
Emitter-Base Voltage	V_{EBO}	-5	V
Collector Current	Ic	-2	Α
Base Current	I _B	-0.4	Α
Collector Power Dissipation	P _C	500 1000 ^(Note2)	mW

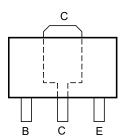
Classification Of h_{FE}

Rank	0	Y
Range	70-140	120-240
Marking	NO	NY

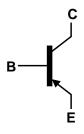
Note 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Note 2.Mounted on ceramic substrate (250mm² x 0.8t)

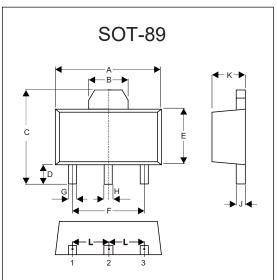
Pin Configuration - Top View



Internal Structure

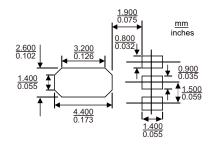


PNP Silicon Epitaxial Transistors



DIMENSIONS						
DIM INCHES		MM		NOTE		
DIIVI	MIN	MAX	MIN	MAX	INOIL	
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		
Е	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



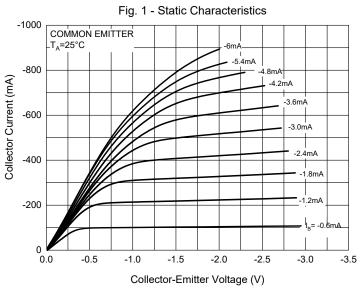


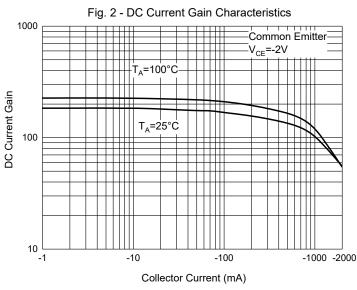
Electrical Characteristics @ 25°C Unless Otherwise Specified

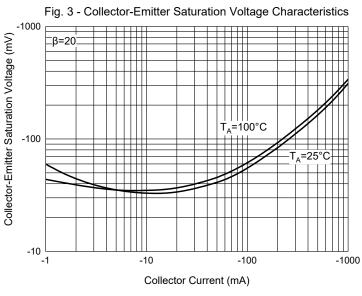
Parameter	Symbol	Min	Тур	Max	Units	Conditions
Collector-Base Breakdown Voltage	V _{(BR)CBO}	-50			V	I _C =-100μA, I _E =0
Collector-Emitter Breakdown Voltag	$V_{(BR)CEO}$	-50			V	I _C =-10mA, I _B =0
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	-5			V	I _E =-100μA, I _C =0
Collector-Base Cutoff Current	I _{CBO}			-0.1	μΑ	V_{CB} =-50V, I_{E} =0
Emitter-Base Cutoff Current	I _{EBO}			-0.1	μΑ	V _{EB} =-5V, I _C =0
DC Current Gain	h _{FE1}	70		240		V_{CE} =-2Vdc, I_{C} =-0.5A
	h _{FE2}	20				V _{CE} =-2Vdc, I _C =-2A
Collector-Emitter Saturation Voltage	V _{CE(sat)}			-0.5	V	I _C =-1A, I _B =-50mA
Base-Emitter Saturation Voltage	V _{BE(sat)}			-1.2	V	I _C =-1A, I _B =-50mA
Transition Frequency	f _T	100	120		MHz	V _{CE} =-2V, I _C =-0.5A
Collector Output Capacitance	C _{ob}		40		pF	V _{CB} =-10V, I _E =0, f=1.0MHz

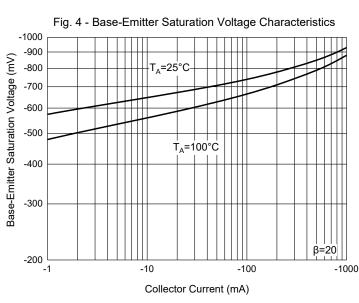


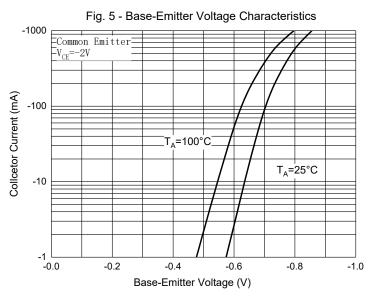
Curve Characteristics

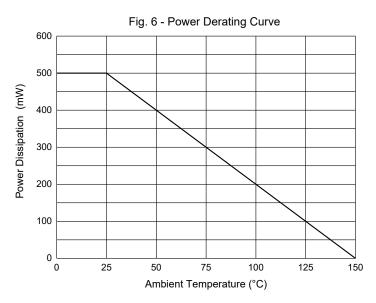














Ordering Information

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

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