

Features

- · Fast Switching Speed
- · Low Collector-to-Emitter Saturation Voltage
- 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)

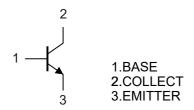
Maximum Ratings @ 25°C Unless Otherwise Specified

- 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

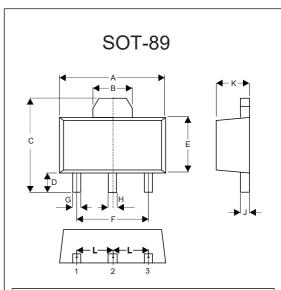
Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V _{CBO}	40	V
Collector-Emitter Voltage	V _{CEO}	32	V
Emitter-Base Voltage	V _{EBO}	5	V
Continuous Collector Current	I _C	1	Α
Power Dissipation	P _D	0.5	W

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

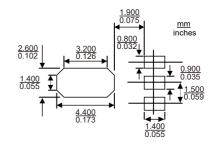


NPN Epitaxial Planar Silicon Transistors



DIMENSIONS					
DIM INCHES		MM		NOTE	
DIIVI	MIN	MAX	MIN MAX		NOTE
Α	0.169	0.185	4.30	4.70	
В	0.0	0.061 1.55		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 @ T_A =25°C Unless Otherwise Specified

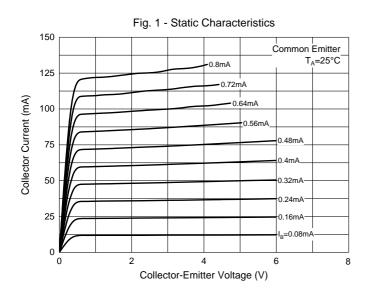
Parameter	Symbol	Min	Тур	Max	Units	Conditions
Collector-Base Breakdown Voltage	V _{(BR)CBO}	40			V	I _C =50μA, I _E =0
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	32			V	I _C =1mA, I _B =0
Emitter-Base Breakdown Voltage	V _{(BR)EBO}	5			V	I _E =50μA, I _C =0
Collector Cutoff Current	I _{CBO}			0.5	μA	V _{CB} =20V, I _E =0
Emitter Cutoff Current	I _{EBO}			0.5	μA	V_{EB} =4V, I_C =0
DC Current Gain	h _{FE}	82		390		V_{CE} =3V, I_{C} =0.1A
Collector-Emitter Saturation Voltage	V _{CE(sat)}			0.4	V	I _C =0.5A, I _B =0.05A
Transition Frequency	f _T		150		MHz	V _{CE} =5V, I _C =0.05A, f=100MHz
Output Capacitance	C _{ob}		15		pF	V _{CB} =10V, I _E =0,f=1MHz

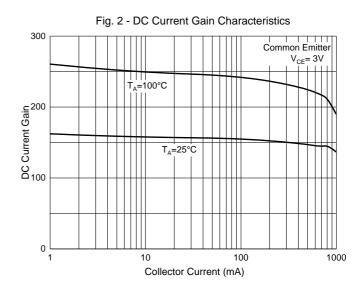
Classification of h_{FE}

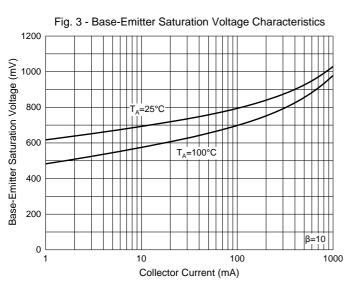
Rank	Р	Q	R
Range	82-180	120-270	180-390
Marking	DAP	DAQ	DAR

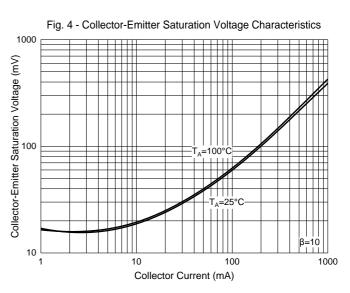


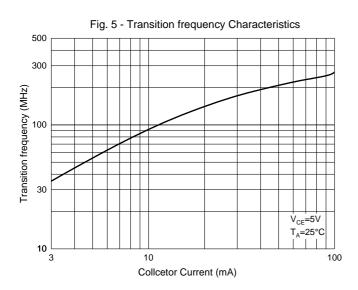
Curve Characteristics

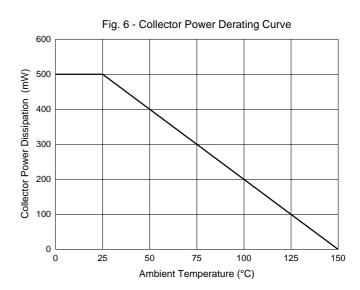














Ordering Information

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

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