

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)

PNP General Purpose Transistor

Maximum Ratings @ 25°C Unless Otherwise Specified

Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V _{CBO}	-60	V
Collector-Emitter Voltage	V _{CEO}	-50	V
Emitter-Base Voltage	V _{EBO}	-5	V
Collector Current	I _C	-1	Α
Power Dissipation	P _D	0.5	W

Thermal characteristics

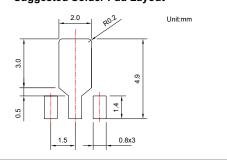
Parameter	Symbol	Rating	Unit
Junction Temperature Range	T _J	-55~+150	°C
Storage Temperature Range	T _{STG}	-55~+150	°C
Thermal Resistance from Junction to Ambient ^(Note2)	Rth _(J-A)	250	°C/W

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

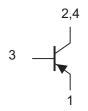
SOT-89

DIMENSIONS						
DIM INCHES		HES	M	M	NOTE	
DIIVI	MIN	MAX	MIN	MAX	INOTE	
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

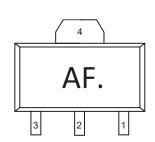


Internal Structure



3.BASE 2,4.COLLECTOR 1.EMITTER

Marking Code



^{2.}Part mounted on FR-4 board with recommended pad layout.

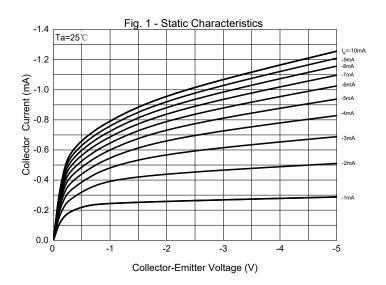


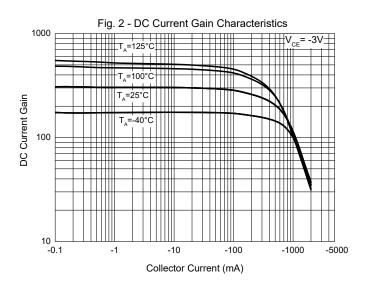
Electrical Characteristics @ 25°C Unless Otherwise Specified

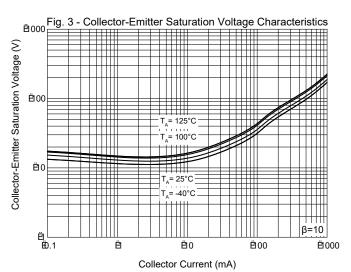
Parameter	Symbol	Min	Тур	Max	Units	Conditions
Collector-Base Breakdown Voltage	V _{(BR)CBO}	-60			V	I _C =-50uA, I _E =0
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	-50			V	I_C =-1mA, I_B =0
Emitter-Base Breakdown Voltage	V _{(BR)EBO}	-5			V	I _E =-50uA, I _C =0
Collector-Base Cutoff Current	I _{CBO}			-0.1	uA	V_{CB} =-40V, I_{E} =0
Emitter-Base Cutoff Current	I _{EBO}			-0.1	uA	V_{EB} =-4V, I_C =0
DC Current Gain	h _{FE}	120		270		V_{CE} =-3V, I_{C} =-0.5A
Collector-Emitter Saturation Voltage	V _{CE(sat)}			-0.4	V	I _C =-0.5A, I _B =-50mA
Base-Emitter Saturation Voltage	V _{BE(sat)}			-1.1	V	I _C =-0.5A, I _B =-50mA

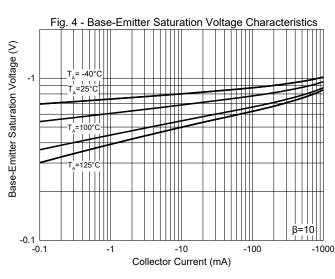


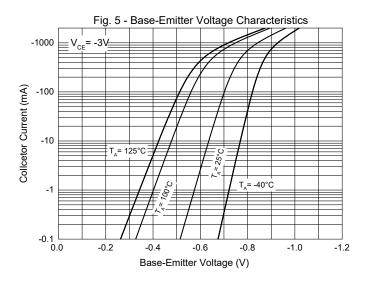
Curve Characteristics

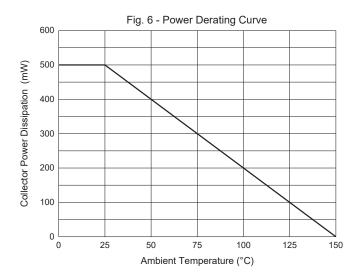














Ordering Information

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

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