

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)

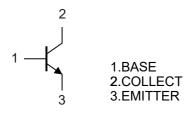
Maximum Ratings @ 25°C Unless Otherwise Specified

- 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

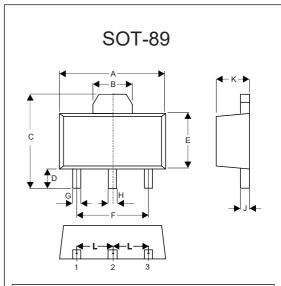
Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V _{CBO}	30	٧
Collector-Emitter Voltage	V _{CEO}	30	V
Emitter-Base Voltage	V_{EBO}	5	V
Continuous Collector Current	I _C	1.5	Α
Power Dissipation	P _D	0.5	W

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

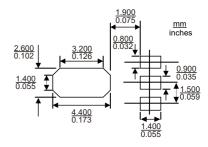


NPN Silicon Power Transistors



DIMENSIONS					
DIM INCHES		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	
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

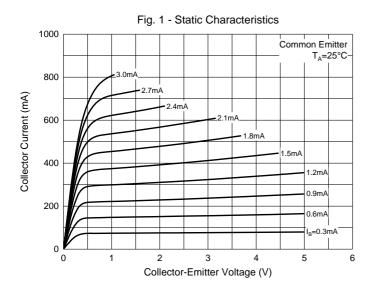
Parameter	Symbol	Min	Тур	Max	Units	Conditions
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	30			V	I _C =1mA, I _E =0
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	30			V	I _C =10mA, I _B =0
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	5			V	I _E =1mA, I _C =0
Collector-Base Cutoff Current	I _{CBO}			0.1	μA	V_{CB} =30V, I_{E} =0
Emitter-Base Cutoff Current	I _{EBO}			0.1	μA	V_{EB} =5V, I_C =0
DC Current Gain	h _{FE}	100		320		V_{CE} =2V, I_{C} =0.5A
Collector-Emitter Saturation Voltage	V _{CE(sat)}			2.0	V	I _C =1.5A, I _B =30mA
Base-Emitter Voltage	V_{BE}			1.0	V	V_{CE} =2V, I_{C} =0.5A
Transition Frequency	f _T		120		MHz	V_{CE} =2V, I_{C} =0.5A
Collector Output Capacitance	C _{ob}			40	pF	V _{CB} =10V,I _E =0,f=1MHz

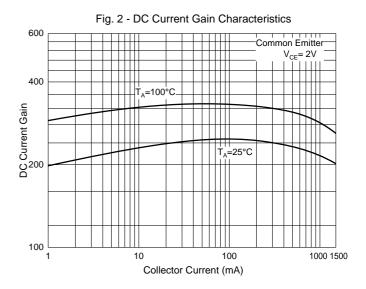
Classification of h_{FE}

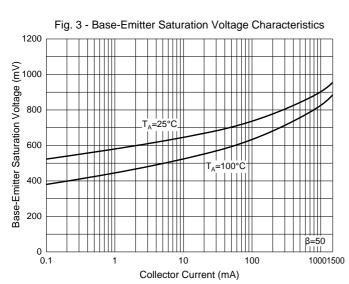
Rank	0	Y	
Range	100-200	160-320	
Marking	GO	GY	

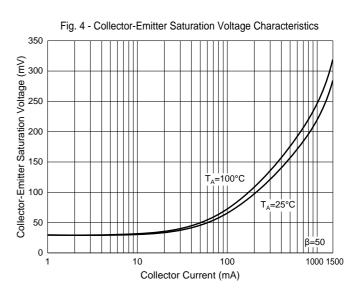


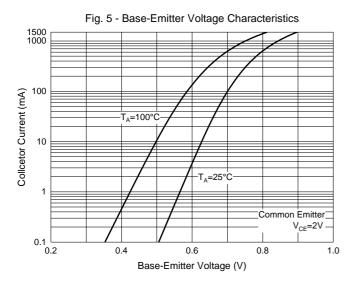
Curve Characteristics

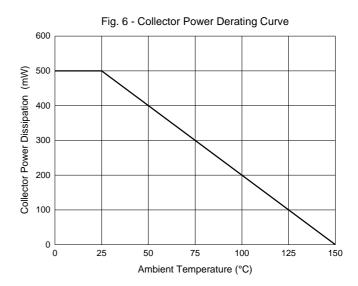














Ordering Information

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

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