

Features

- · High Current
- · Low Voltage
- Halogen Free. "Green" Device (Note 1)
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

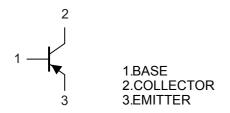
Maximum Ratings @ 25°C Unless Otherwise Specified

- 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

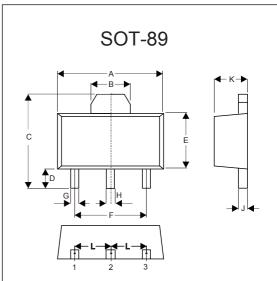
Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V_{CBO}	-32	V
Collector-Emitter Voltage	V_{CEO}	-20	V
Emitter-Base Voltage	V _{EBO}	-5	V
Continuous Collector Current	I _C	-1	Α
Peak Base Current	I _{BM}	-200	mA
Power Dissipation	P _D	0.5	W

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

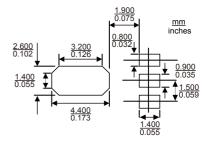


PNP Medium Power Transistors



DIMENSIONS					
DIM		MM		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	
E	0.089	0.104	2.25	2.65	
F	0.118		3.00		TYP.
G	0.013	0.020	0.33	0.52	
Η	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 Cutoff Current	I _{CBO}			-100	nA	V _{CB} =-25V, I _E =0
				-10	μA	V _{CB} =-25V, I _E =0, T _J =150°C
Emitter Cutoff Current	I _{EBO}			-100	nA	V_{EB} =-5V, I_C =0
	h _{FE(1)}	50				V _{CE} =-1V, I _C =-5mA
DC Current Gain	h _{FE(2)}	100		375		V _{CE} =-1V, I _C =-500mA
	h _{FE(3)}	60				V _{CE} =-1V, I _C =-1A
Collector-Emitter Saturation Voltage	V _{CE(sat)}			-0.5	V	I _C =-1A, I _B =-0.1A
Transition Frequency	f _T	40			MHz	V _{CE} =-5V, I _C =-10mA, f=100MHz

Classification of h_{FE(2)}

Rank	BC869	BC869-16	BC869-25
Range	100-375	100-250	160-375
Marking	CEC	CGC	CHC



Ordering Information

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

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