

## **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)

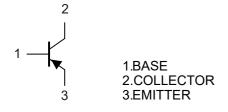
## Maximum Ratings @ 25°C Unless Otherwise Specified

- 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

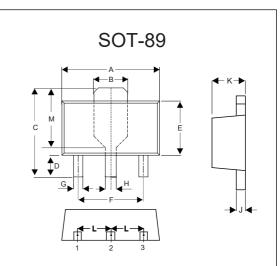
Parameter	Symbol	Rating	Unit
Collector-Base Voltage	$V_{CBO}$	-32	٧
Collector-Emitter Voltage	$V_{CEO}$	-20	V
Emitter-Base Voltage	V <sub>EBO</sub>	-5	V
Continuous Collector Current	I <sub>C</sub>	-1	Α
Peak Base Current	I <sub>BM</sub>	-200	mA
Power Dissipation	$P_D$	0.5	W

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**

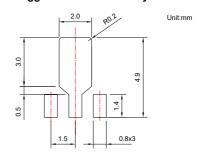


# PNP Medium Power Transistors



DIMENSIONS						
DIM	INCHES		MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOTE	
Α	0.169	0.185	4.30	4.70		
В	0.0	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.	
M	0.108		2.75		TYP.	

## Suggested Solder Pad Layout





## Electrical Characteristics @ T<sub>A</sub>=25°C Unless Otherwise Specified

Parameter	Symbol	Min	Тур	Max	Units	Conditions
Collector Cutoff Current	I <sub>CBO</sub>			-100	nA	$V_{CB}$ =-25V, $I_E$ =0
				-10	μA	V <sub>CB</sub> =-25V, I <sub>E</sub> =0, T <sub>J</sub> =150°C
Emitter Cutoff Current	I <sub>EBO</sub>			-100	nA	$V_{EB}$ =-5V, $I_C$ =0
	h <sub>FE(1)</sub>	50				V <sub>CE</sub> =-1V, I <sub>C</sub> =-5mA
DC Current Gain	h <sub>FE(2)</sub>	100		375		V <sub>CE</sub> =-1V, I <sub>C</sub> =-500mA
	h <sub>FE(3)</sub>	60				V <sub>CE</sub> =-1V, I <sub>C</sub> =-1A
Collector-Emitter Saturation Voltage	V <sub>CE(sat)</sub>			-0.5	V	I <sub>C</sub> =-1A, I <sub>B</sub> =-0.1A
Transition Frequency	f <sub>T</sub>	40			MHz	V <sub>CE</sub> =-5V, I <sub>C</sub> =-10mA, f=100MHz

## Classification of h<sub>FE(2)</sub>

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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