

## Features

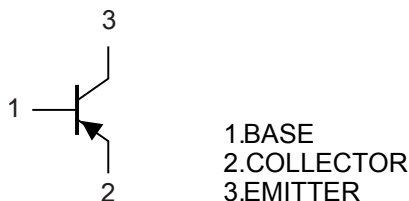
- High Current
- Low Voltage
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

## 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

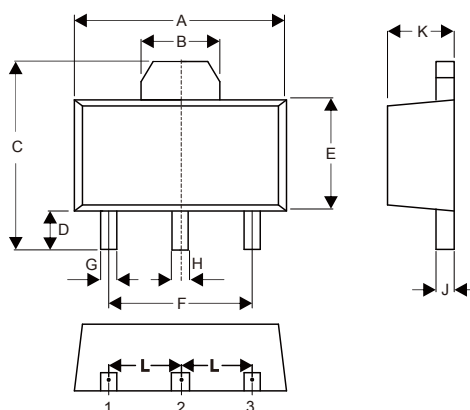
Parameter	Symbol	Rating	Unit
Collector-Base Voltage	$V_{CBO}$	-32	V
Collector-Emitter Voltage	$V_{CEO}$	-20	V
Emitter-Base Voltage	$V_{EBO}$	-5	V
Continuous Collector Current	$I_C$	-1	A
Peak Base Current	$I_{BM}$	-200	mA
Power Dissipation	$P_D$	0.5	W

## Internal Structure



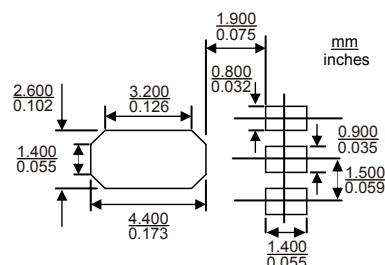
## PNP Medium Power Transistors

### SOT-89



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.169	0.185	4.30	4.70	
B		0.061		1.55	TYP.
C	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	
H	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 @ $T_A=25^{\circ}\text{C}$ Unless Otherwise Specified

Parameter	Symbol	Min	Typ	Max	Units	Conditions
Collector Cutoff Current	$I_{CBO}$			-100	nA	$V_{CB}=-25\text{V}, I_E=0$
				-10	$\mu\text{A}$	$V_{CB}=-25\text{V}, I_E=0, T_J=150^{\circ}\text{C}$
Emitter Cutoff Current	$I_{EBO}$			-100	nA	$V_{EB}=-5\text{V}, I_C=0$
DC Current Gain	$h_{FE(1)}$	50				$V_{CE}=-1\text{V}, I_C=-5\text{mA}$
	$h_{FE(2)}$	100		375		$V_{CE}=-1\text{V}, I_C=-500\text{mA}$
	$h_{FE(3)}$	60				$V_{CE}=-1\text{V}, I_C=-1\text{A}$
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$			-0.5	V	$I_C=-1\text{A}, I_B=-0.1\text{A}$
Transition Frequency	$f_T$	40			MHz	$V_{CE}=-5\text{V}, I_C=-10\text{mA}, f=100\text{MHz}$

### 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

Note : Adding "-HF" Suffix for Halogen Free, eg. Part Number-TP-HF

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