

### 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)

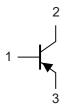
## Maximum Ratings @ 25°C Unless Otherwise Specified

- 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 <sub>CBO</sub>	-32	V
Collector-Emitter Voltage	V <sub>CEO</sub>	-20	V
Emitter-Base Voltage	V <sub>EBO</sub>	-5	V
Continuous Collector Current	I <sub>C</sub>	-1	А
Peak Base Current	I <sub>BM</sub>	-200	mA
Power Dissipation	P <sub>D</sub>	0.5	W

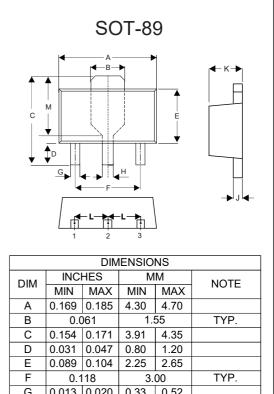
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

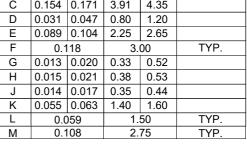
### **Internal Structure**



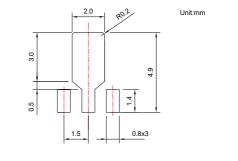
1.BASE 2.COLLECTOR 3.EMITTER







#### Suggested Solder Pad Layout





# Electrical Characteristics @ $T_A=25$ °C Unless Otherwise Specified

Parameter	Symbol	Min	Тур	Max	Units	Conditions
Collector Cutoff Current	I <sub>сво</sub>			-100	nA	V <sub>CB</sub> =-25V, I <sub>E</sub> =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 <sub>C</sub> =0
DC Current Gain	h <sub>FE(1)</sub>	50				V <sub>CE</sub> =-1V, I <sub>C</sub> =-5mA
	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	СНС



## **Ordering Information**

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

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