



## PNP General Purpose Amplifier

### Features

- Epoxy meets UL-94 V-0 flammability rating
- Halogen free available upon request by adding suffix "HF"
- Moisture sensitivity level 1
- Low collector-emitter saturation voltage

### Mechanical Data

**Package:** SOT-89

Molding compound meets UL 94 V-0 flammability rating,  
RoHS-compliant, halogen-free

**Terminals:** Tin plated leads, solderable per  
J-STD-002 and JESD22-B102

Marking:

BC869

CEC

### Maximum Ratings (Ta=25 unless otherwise noted)

Item	Symbol	Unit	Conditions	Value
Minimum Collector-Emitter Voltage	$V_{CEO}$	V	$I_C=-1mA, I_B=0$	-20
Minimum Collector-Base Voltage	$V_{CBO}$	V	$I_C=-100\mu A, I_E=0$	-32
Minimum Emitter-Base Voltage	$V_{EBO}$	V	$I_E=-100\mu A, I_C=0$	-5
Collector Current	$I_C$	A		-1
Collector Power Dissipation	$P_C$	mW		500
Thermal Resistance From Junction To Ambient	$R_{JA}$	/W		250
Operation Junction Temperature	$T_j$			-55 to +150
Storage Temperature	$T_{stg}$			-55 to +150



# BC869

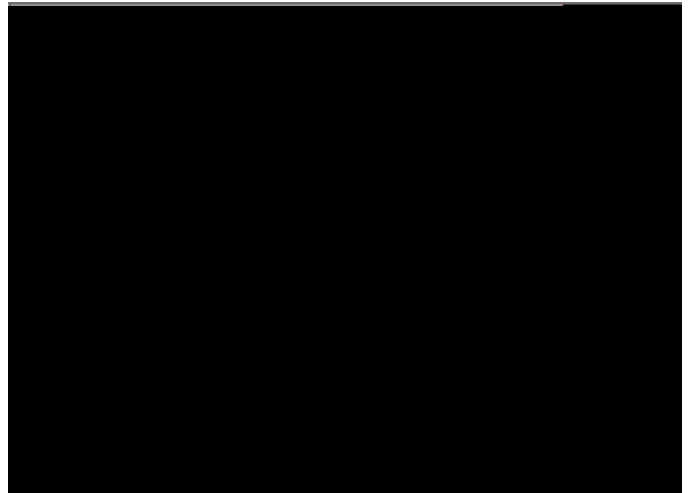
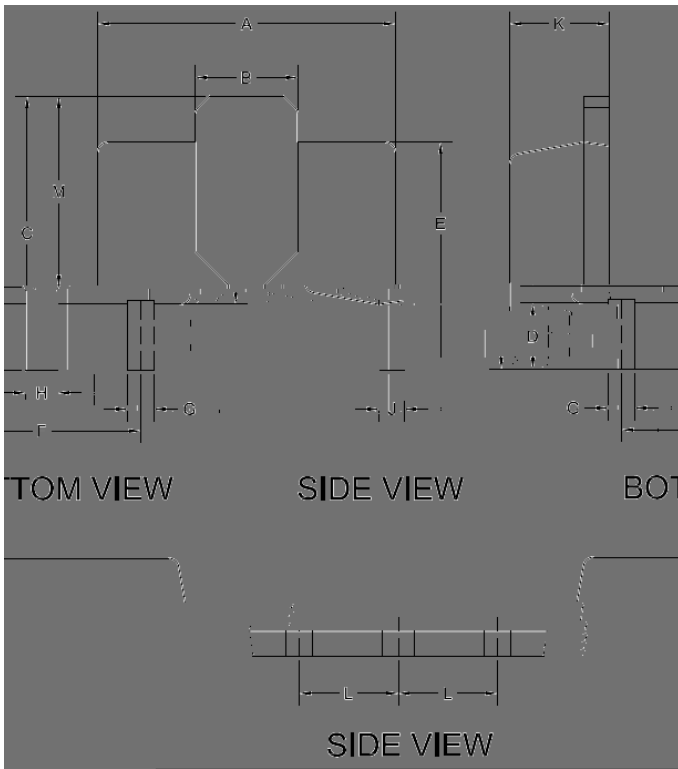
## Electrical Characteristics (Ta=25 unless otherwise noted)

Item	Symbol	Unit	Conditions	Min	TYP	Max
Collector-Emitter Voltage	$V_{CEO}$	V	$I_C = -1\text{mA}, I_B = 0$	-20		
Collector-Base Voltage	$V_{CBO}$	V	$I_C = -100\mu\text{A}, I_E = 0$	-32		
Emitter-Base Voltage	$V_{EBO}$	V	$I_E = -100\mu\text{A}, I_C = 0$	-5		
Collector-Base cut-off current	$I_{CBO}$	nA	$V_{CB} = -25\text{V}$			-100
Emitter-Base cut-off current	$I_{EBO}$	nA	$V_{EB} = -5\text{V}$			-100
DC Current Gain	$h_{FE1}$		$V_{CE} = -1\text{V}, I_C = -5\text{mA}$	50		
	$h_{FE2}$		$V_{CE} = -1\text{V}, I_C = -500\text{mA}$	100		375

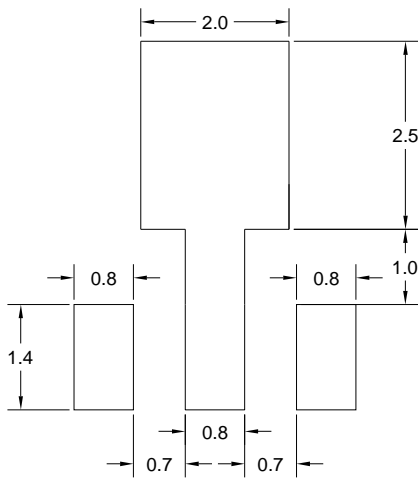
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SOT-89 Package Outline Dimensions



SOT-89 Suggested Pad Layout



UNIT:MM



## Disclaimer

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