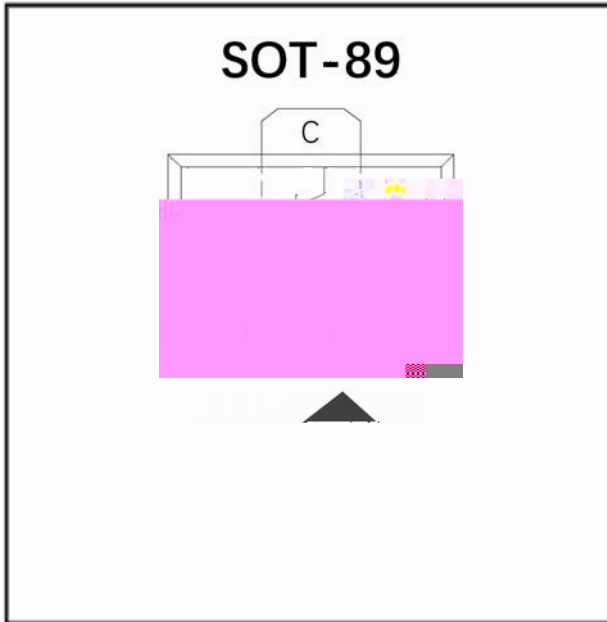


PNP General Purpose Amplifier



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
BC869-25	CHC

Maximum Ratings (Ta=25 unless otherwise noted)

Item	Symbol	Unit	Conditions	Value
Minimum Collector-Emitter Voltage	V_{CEO}	V	$I_C = -1\text{mA}$, $I_B = 0$	-20
Minimum Collector-Base Voltage	V_{CBO}	V	$I_C = -100\mu\text{A}$, $I_E = 0$	-32
Minimum Emitter-Base Voltage	V_{EBO}	V	$I_E = -100\mu\text{A}$, $I_C = 0$	-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

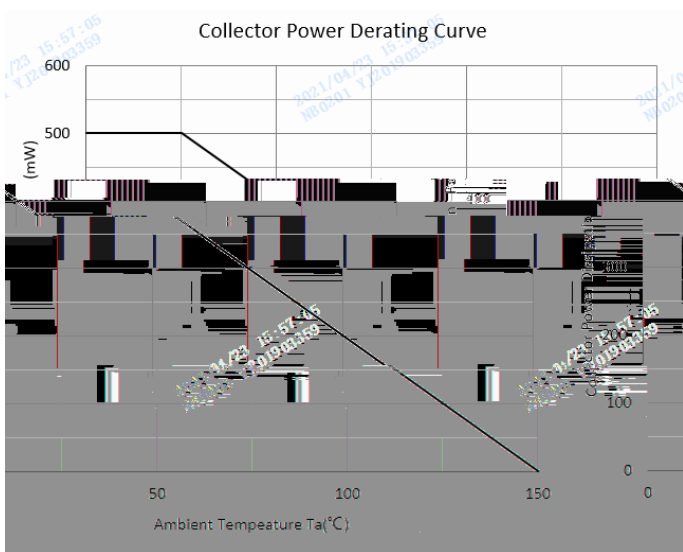
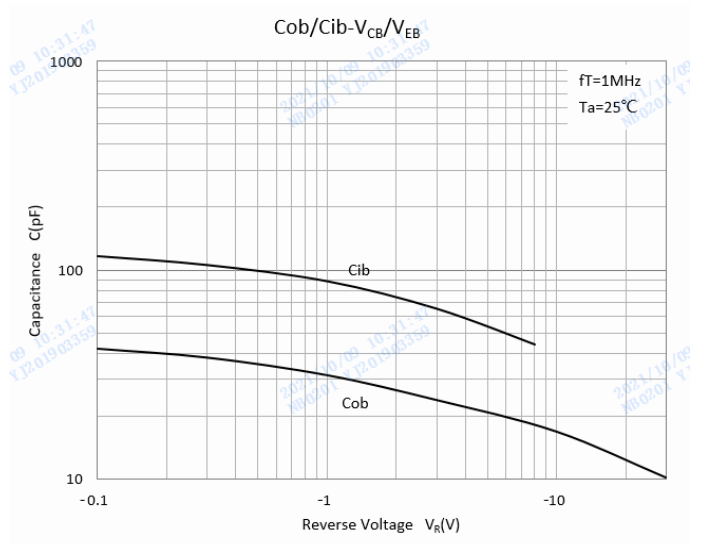
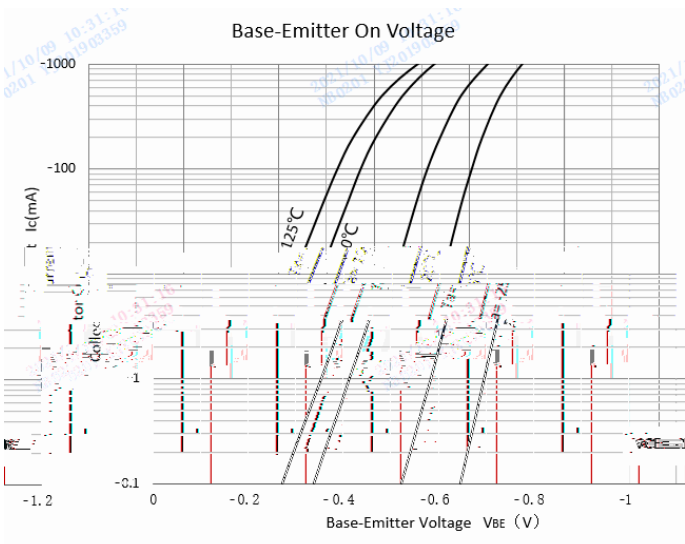
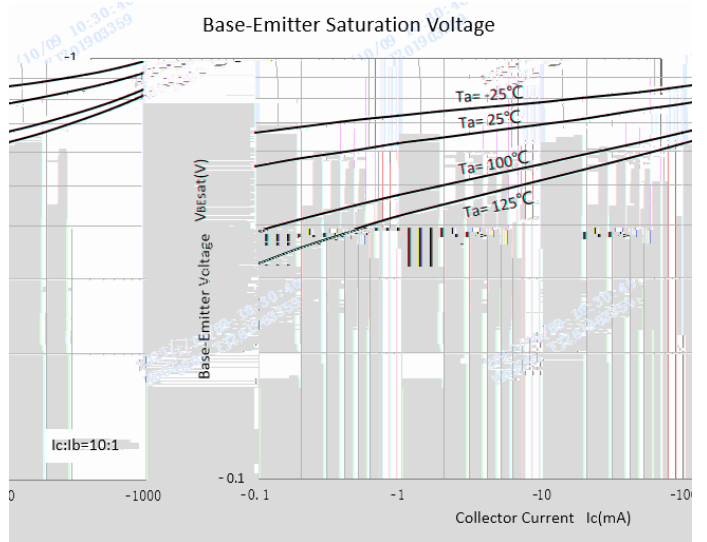
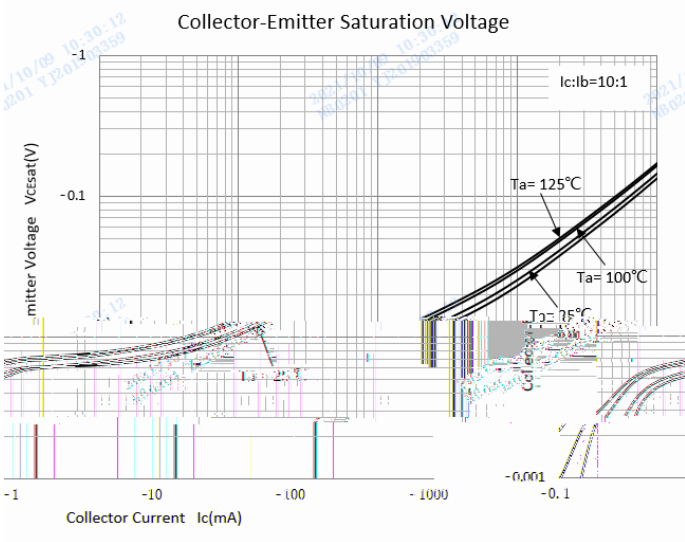


BC869

Electrical Characteristics (Ta=25 unless otherwise noted)

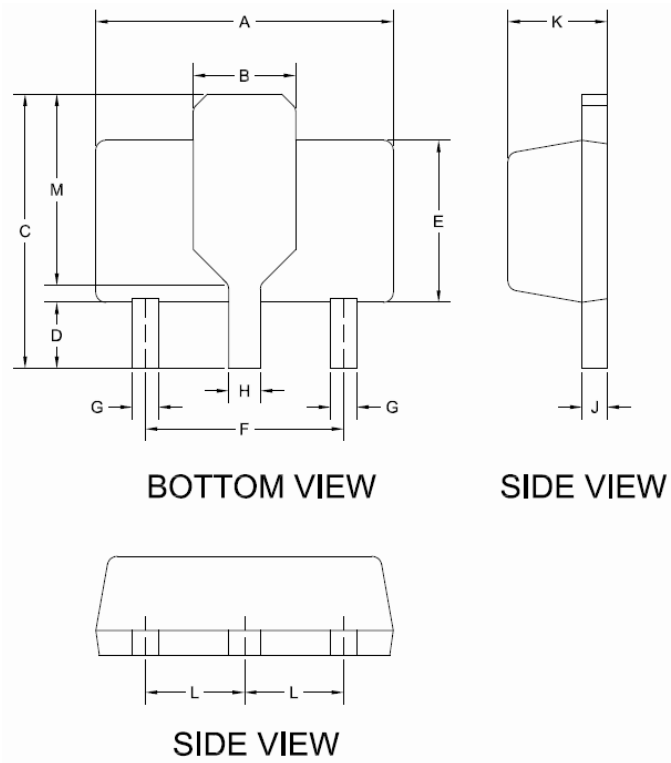
Item	Symbol	Unit	Conditions	Min	TYP	Max
Collector-Emitter Voltage	V_{CEO}	V	$I_C=-1mA, I_B=0$	-20		
Collector-Base Voltage	V_{CBO}	V	$I_C=-100\mu A, I_E=0$	-32		
Emitter-Base Voltage	V_{EBO}	V	$I_E=-100\mu A, I_C=0$	-5		
Collector-Base cut-off current	I_{CBO}	nA	$V_{CB}=-25V$			-100
Emitter-Base cut-off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

h



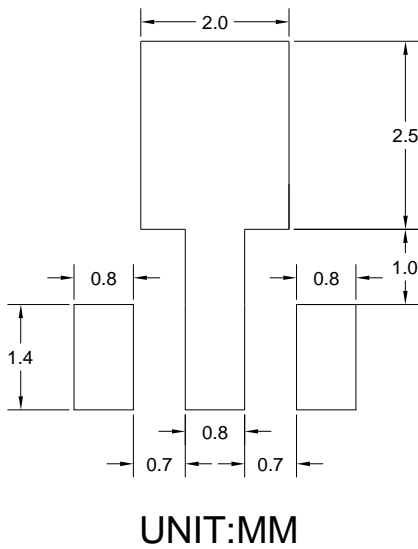


SOT-89 Package Outline Dimensions



DIM	INCHES		MM	
	MIN.	MAX.	MIN.	MAX.
A	0.173	0.181	4.400	4.600
B	0.061 TYP.		1.550 TYP.	
C	0.155	0.167	3.940	4.250
D	0.031	0.047	0.800	1.200
E	0.094	0.102	2.400	2.600
F	0.118 TYP.		3.00 TYP.	
G	0.014	0.019	0.360	0.480
H	0.560	0.617	0.022	0.030
J	0.440	0.514	0.017	0.025
K	0.600	0.655	0.063	0.070
L	1.500 TYP.		0.059	
M	2.750 TYP.		0.108	

■SOT-89 Suggested Pad Layout





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