

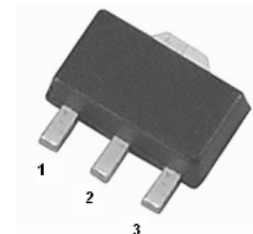
SMD General Purpose Transistor (PNP)

Features

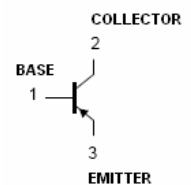
- PNP Silicon Epitaxial Planar Transistor for High Current and Low Voltage Applications

Mechanical Data

Case:	SOT-89, Plastic Package
Terminals:	Solderable per MIL-STD-202G, Method 208
Weight:	0.015 gram



SOT-89



Marking Information

Rank	BC869	BC869-16	BC869-25
Marking Code	CEC	CGC	CHC

Maximum Ratings ($T_{Ambient}=25^{\circ}C$ unless noted otherwise)

Symbol	Description	Value	Unit
-V_{CB0}	Collector-Base Voltage	32	V
-V_{CEO}	Collector-Emitter Voltage	20	V
-V_{EB0}	Emitter-Base Voltage	5	V
-I_c	Collector Current	1	A
P_D	Power Dissipation	500	mW
T_J	Junction Temperature	150	°C
T_{STG}	Storage Temperature Range	-65 to +150	°C

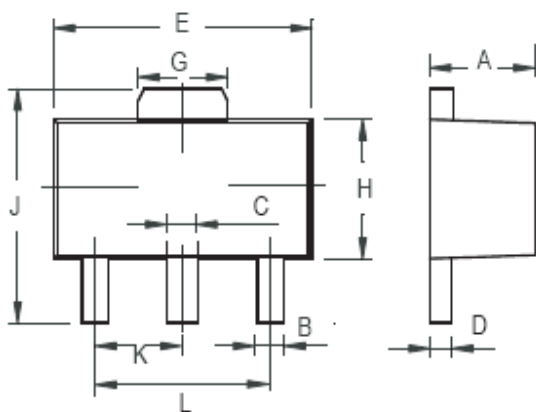
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Electrical Characteristics ($T_{Ambient}=25^{\circ}C$ unless noted otherwise)

Symbol	Description	Min.	Max.	Unit	Conditions	
$-V(BR)CBO$	Collector-Base Breakdown Voltage	32	-	V	$-I_C=0.1mA, I_E=0$	
$-V(BR)CEO$	Collector-Emitter Breakdown Voltage	20	-	V	$-I_C=1mA, I_B=0$	
$-V(BR)EBO$	Emitter-Base Breakdown Voltage	5	-	V	$-I_E=0.1mA, I_C=0$	
$-I_{CBO}$	Collector Cut-off Current	-	0.1	μA	$-V_{CB}=25V, I_E=0$	
$-I_{EBO}$	Emitter Cut-off Current	-	0.1	μA	$-V_{EB}=5V, I_C=0$	
hFE	D.C. Current Gain	hFE1	50	-		$-V_{CE}=10V, -I_C=5mA$
		hFE2	100	375		$-V_{CE}=1V, -I_C=500mA$
		hFE3	60	-		$-V_{CE}=1V, -I_C=1A$
		BC869-16	100	250		$-V_{CE}=1V, -I_C=500mA$
		BC869-25	160	375		$-V_{CE}=1V, -I_C=500mA$
$-V_{CE(sat)}$	Collector-Emitter Saturation Voltage	-	0.5	V	$-I_C=1A, -I_B=100mA$	
$-V_{BE(on)}$	Base-Emitter On Voltage	-	1	V	$-V_{CE}=1V, -I_C=1A$	
fT	Current Gain-Bandwidth Product	40	-	MHz	$-V_{CE}=5V, -I_C=10mA, f=100MHz$	

Dimensions in mm



SOT-89

SOT-89		
Dim	Min	Max
A	1.400	1.600
B	0.320	0.520
C	0.360	0.560
D	0.350	0.440
E	4.400	4.600
G	1.400	1.800
H	2.300	2.600
J	3.940	4.250
K	1.500TYP	
L	2.900	3.100

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