



Micro Commercial Components

Micro Commercial Components  
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**BC869**

**BC869-16**

**BC869-25**

## Features

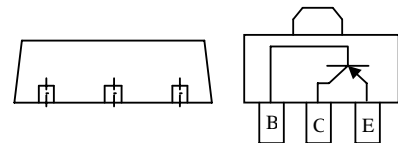
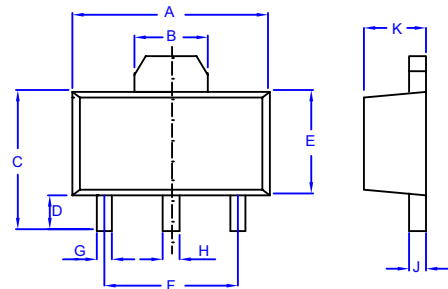
- High current (max. 1.0A)
- Low voltage (max. 20V)
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1

**PNP Medium  
Power Transistors**

## Maximum Ratings

Symbol	Rating	Value	Unit
$V_{CEO}$	Collector-Emitter Voltage	20	V
$V_{CBO}$	Collector-Base Voltage	32	V
$V_{EBO}$	Emitter-Base Voltage	5.0	V
$I_C$	Collector Current, DC	1.0	A
$I_{BM}$	Peak Base Current	200	mA
$P_C$	Collector Power Dissipation $T_{amb} \leq 25^\circ\text{C}$	0.50	W
$T_J$	Junction Temperature	-55 to +150	$^\circ\text{C}$
$T_{STG}$	Storage Temperature	-55 to +150	$^\circ\text{C}$

## SOT-89



## Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Typ	Max	Units
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### OFF CHARACTERISTICS

$I_{CBO}$	Collector Cutoff Current ( $V_{CB}=25\text{Vdc}$ )	---	---	100	nAdc	
	( $V_{CB}=25\text{Vdc}$ , $I_E=0$ , $T_J=150^\circ\text{C}$ )	---	---	10	uAdc	
$I_{EBO}$	Emitter Cutoff Current ( $V_{EB}=5.0\text{Vdc}$ , $I_C=0$ )	---	---	100	nAdc	
$h_{FE}$	DC Current Gain ( $V_{CE}=10\text{Vdc}$ , $I_C=5.0\text{mAdc}$ )	50	---	---	---	
	( $V_{CE}=1.0\text{Vdc}$ , $I_C=500\text{mAdc}$ )	100	---	375	---	
	( $V_{CE}=1.0\text{Vdc}$ , $I_C=1.0\text{Adc}$ )	60	---	---	---	
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage ( $I_C=1.0\text{Adc}$ , $I_E=100\text{mAdc}$ )	BC869-16	100	---	250	---
		BC869-25	160	---	375	---
$f_T$	Transition Frequency ( $V_{CE}=5.0\text{Vdc}$ , $I_C=10\text{mAdc}$ , $f=100\text{MHz}$ )	40	---	---	MHz	

DIM	DIMENSIONS				NOTES
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	.173	.181	4.39	4.60	
B	.063	.071	1.60	1.80	
C	.154	.165	3.91	4.19	
D	.031	.039	0.80	1.00	
E	.092	.100	2.34	2.54	
F	.118	----	3.00	----	TYP
G	.013	.019	0.33	0.48	
H	.015	.021	0.38	0.53	
J	.015	.016	0.38	0.41	
K	.055	.063	1.40	1.60	

DEVICE MARKING BC869=CEC BC869-16=CGC BC869-25=CHC

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## Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel;1Kpcs/Reel

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