

M·C·C·

Micro Commercial Components



Micro Commercial Components
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BC869
BC869-16
BC869-25

Features

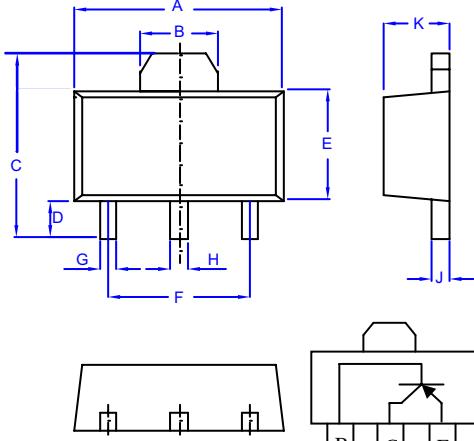
- High current (max. 1.0A)
- Low voltage (max. 20V)
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Halogen free available upon request by adding suffix "-HF"

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	$^{\circ}\text{C}$

PNP Medium Power Transistors

SOT-89



Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Typ	Max	Units
OFF CHARACTERISTICS					
I_{BO}	Collector Cutoff Current ($V_{CB}=25\text{Vdc}$) ($V_{CB}=25\text{Vdc}$, $I_b=0$, $T_j=150^{\circ}\text{C}$)	---	---	100 10	nAdc uAdc
I_{EO}	Emitter Cutoff Current ($V_{EB}=5.0\text{Vdc}$, $I_b=0$)	---	---	100	nAdc
h_{FE}	DC Current Gain ($V_{CE}=10\text{Vdc}$, $I_c=5.0\text{mAdc}$) ($V_{CE}=1.0\text{Vdc}$, $I_c=500\text{mAdc}$) ($V_{CE}=1.0\text{Vdc}$, $I_c=1.0\text{Adc}$)	50 100 60	---	375	---
	DC Current Gain ($V_{CE}=1.0\text{Vdc}$, $I_c=500\text{mAdc}$) BC869-16 BC869-25	100 160	---	250 375	---
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage ($I_c=1.0\text{Adc}$, $I_b=100\text{mAdc}$)	---	---	500	mVdc
f_T	Transition Frequency ($V_{CE}=5.0\text{Vdc}$, $I_c=10\text{mAdc}$, $f=100\text{MHz}$)	40	---	---	MHz

DIM	DIMENSINS				NOTES
	INCHES	MIN	MAX	MM	
A	.173	.181	4.39	4.60	
B	.061	-----	1.55	-----	REF.
C	.154	.165	3.91	4.25	
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; 1 Kpcs/ Reel

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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