



Micro Commercial Components



Micro Commercial Components
20736 Marilla Street Chatsworth
CA 91311
Phone: (818) 701-4933
Fax: (818) 701-4939

BC869
BC869-16
BC869-25

**PNP Medium
Power Transistors**

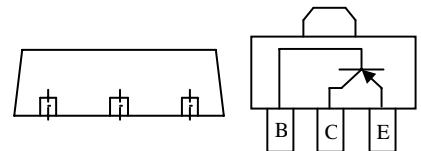
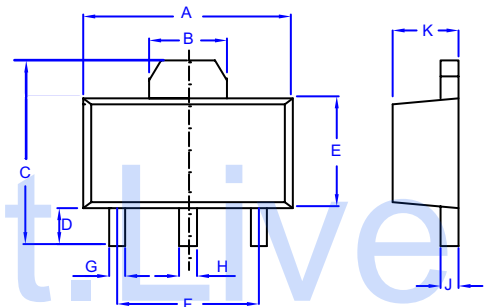
Features

- 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 $T_{amb} \leq 25^\circ C$	0.50	W
T_J	Junction Temperature	-55 to +150	$^\circ C$
T_{STG}	Storage Temperature	-55 to +150	$^\circ C$

SOT-89



Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Typ	Max	Units
--------	-----------	-----	-----	-----	-------

OFF CHARACTERISTICS

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

DIM	DIMENSIONS				NOTES
	INCHES		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
-----------------------	------------------	---------------------	---------------------



TM

Micro Commercial Components

Ordering Information :

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

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

IMPORTANT NOTICE

Micro Commercial Components Corp. reserves the right to make changes without further notice to any product herein to make corrections, modifications, enhancements, improvements, or other changes. **Micro Commercial Components Corp.** does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights, nor the rights of others. The user of products in such applications shall assume all risks of such use and will agree to hold **Micro Commercial Components Corp.** and all the companies whose products are represented on our website, harmless against all damages.

LIFE SUPPORT

MCC's products are not authorized for use as critical components in life support devices or systems without the express written approval of Micro Commercial Components Corporation.

CUSTOMER AWARENESS

Counterfeiting of semiconductor parts is a growing problem in the industry. Micro Commercial Components (MCC) is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. MCC strongly encourages customers to purchase MCC parts either directly from MCC or from Authorized MCC Distributors who are listed by country on our web page cited below. Products customers buy either from MCC directly or from Authorized MCC Distributors are genuine parts, have full traceability, meet MCC's quality standards for handling and storage. **MCC will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources.** MCC is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.

www.mccsemi.com