



Micro Commercial Components



Micro Commercial Components
20736 Marilla Street Chatsworth
CA 91311

Phone: (818) 701-4933

Fax: (818) 701-4939

BCX55 BCX55-10 BCX55-16

Features

- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Power Dissipation: $P_{CM}=0.5W$ ($T_{amb}=25^{\circ}C$)
- Collector Current: $I_{CM}=1.0A$
- Collector-Base Voltage: $V_{(BR)CBO}=60V$
- Marking : BCX55=BE, BCX55-10=BG, BCX55-16=BM
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

Maximum Ratings

Symbol	Rating	Value	Unit
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage	60	V
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage	60	V
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage	5	V
I_C	Collector Current DC	1.0	A
P_C	Collector Power Dissipation	0.5	W
T_J	Junction Temperature Range	-55 to +150	$^{\circ}C$
T_{STG}	Storage Temperature Range	-55 to +150	$^{\circ}C$

Electrical Characteristics @ 25°C Unless Otherwise Specified

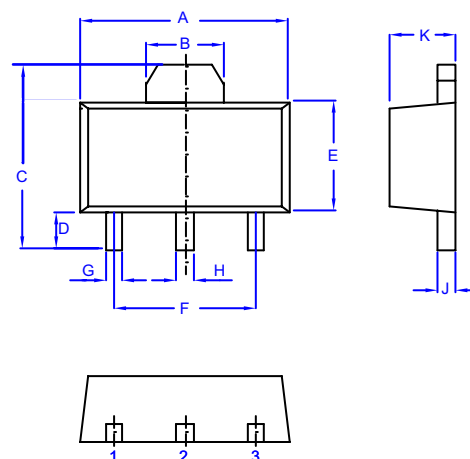
Symbol	Parameter	Min	Typ	Max	Units
--------	-----------	-----	-----	-----	-------

OFF CHARACTERISTICS

$V_{(BR)CBO}$	Collector-Base Breakdown Voltage ($I_C=100\mu A$, $I_E=0$)	60	---	---	V
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage ($I_C=10mA$, $I_E=0$)	60	---	---	V
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage ($I_E=10\mu A$, $I_C=0$)	5	---	---	V
I_{CBO}	Collector Cutoff Current ($V_{CB}=30V$, $I_E=0$)	---	---	0.1	μA
I_{EBO}	Emitter Cutoff Current ($V_{EB}=5.0V$, $I_C=0$)	---	---	0.1	μA
$h_{FE(1)}$	DC Current Gain ($V_{CE}=2.0V$, $I_C=150mA$)	BCX55 63 BCX55-10 63 BCX55-16 100	---	250 160 250	---
$h_{FE(2)}$	DC Current Gain ($V_{CE}=2.0V$, $I_C=5.0mA$)	40			
$h_{FE(3)}$	DC Current Gain ($V_{CE}=2.0V$, $I_C=500mA$)	25			
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage ($I_C=500mA$, $I_B=50mA$)	---	---	0.5	V
$V_{BE(on)}$	Base-Emitter Voltage ($I_C=500mA$, $V_{CE}=2.0V$)	---	---	1	V
f_T	Transition Frequency ($V_{CE}=10V$, $I_C=50mA$, $f=100MHz$)	130	---	---	MHz

NPN Plastic-Encapsulate Transistors

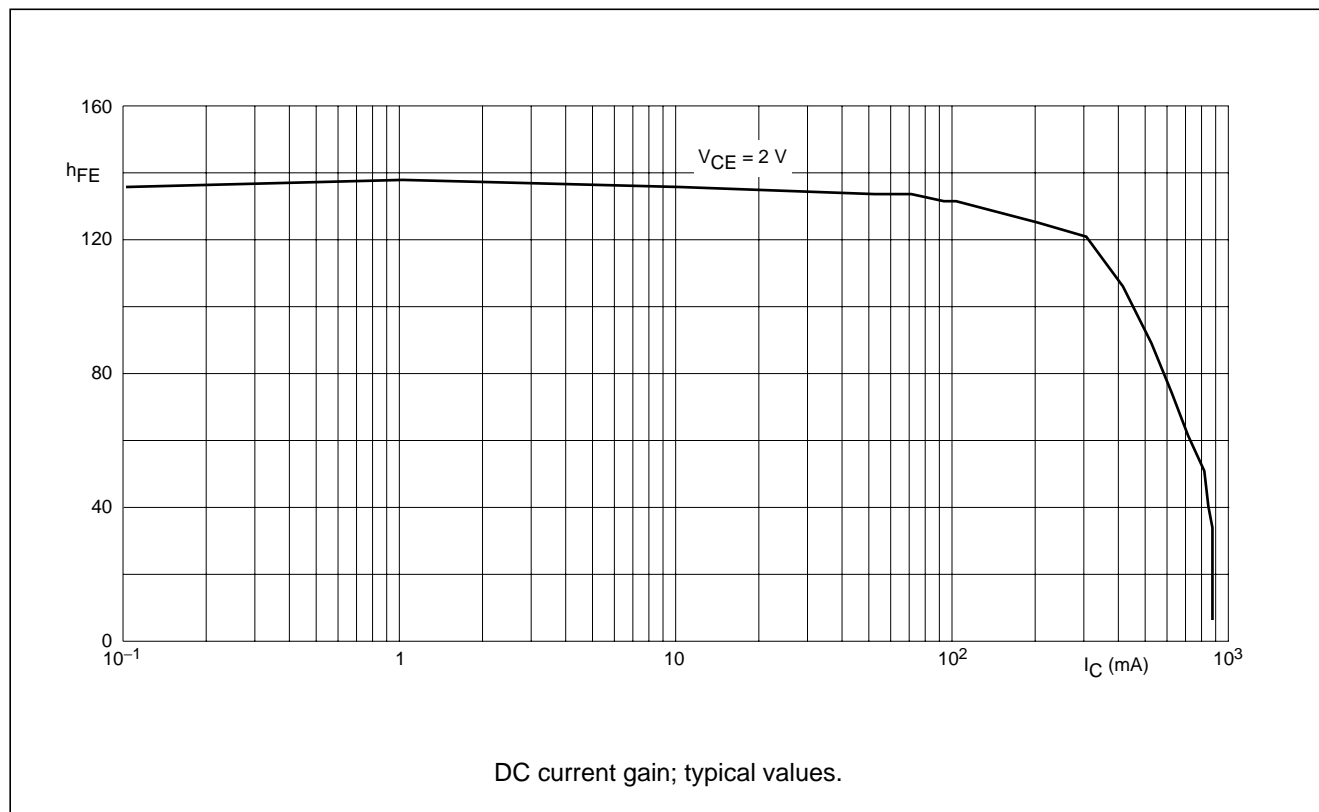
SOT-89



1:Base
2:Collector
3:Emitter

DIMENSINS					
DIM	INCHES		MM		NOTES
	MIN	MAX	MIN	MAX	
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	

BCX55/-10/-16



Ordering Information :

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

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.