



Micro Commercial Components



Micro Commercial Components
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BCX55 BCX55-10 BCX55-16

NPN Plastic-Encapsulate Transistors

Features

- Halogen free available upon request by adding suffix "-HF"
- 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	$^{\circ}C$

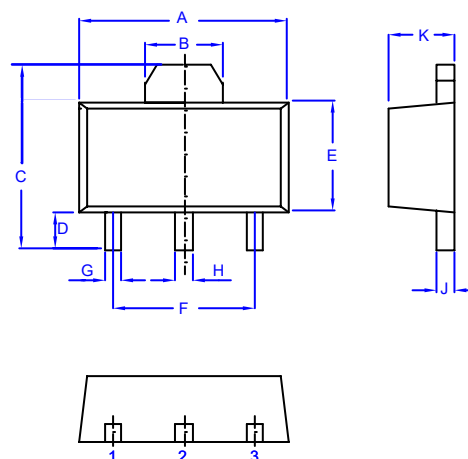
Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Typ	Max	Units
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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 ($I_C=10mA, I_B=0$)	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	---	250	---
	BCX55-10	63	---	160	---
	BCX55-16	100	---	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

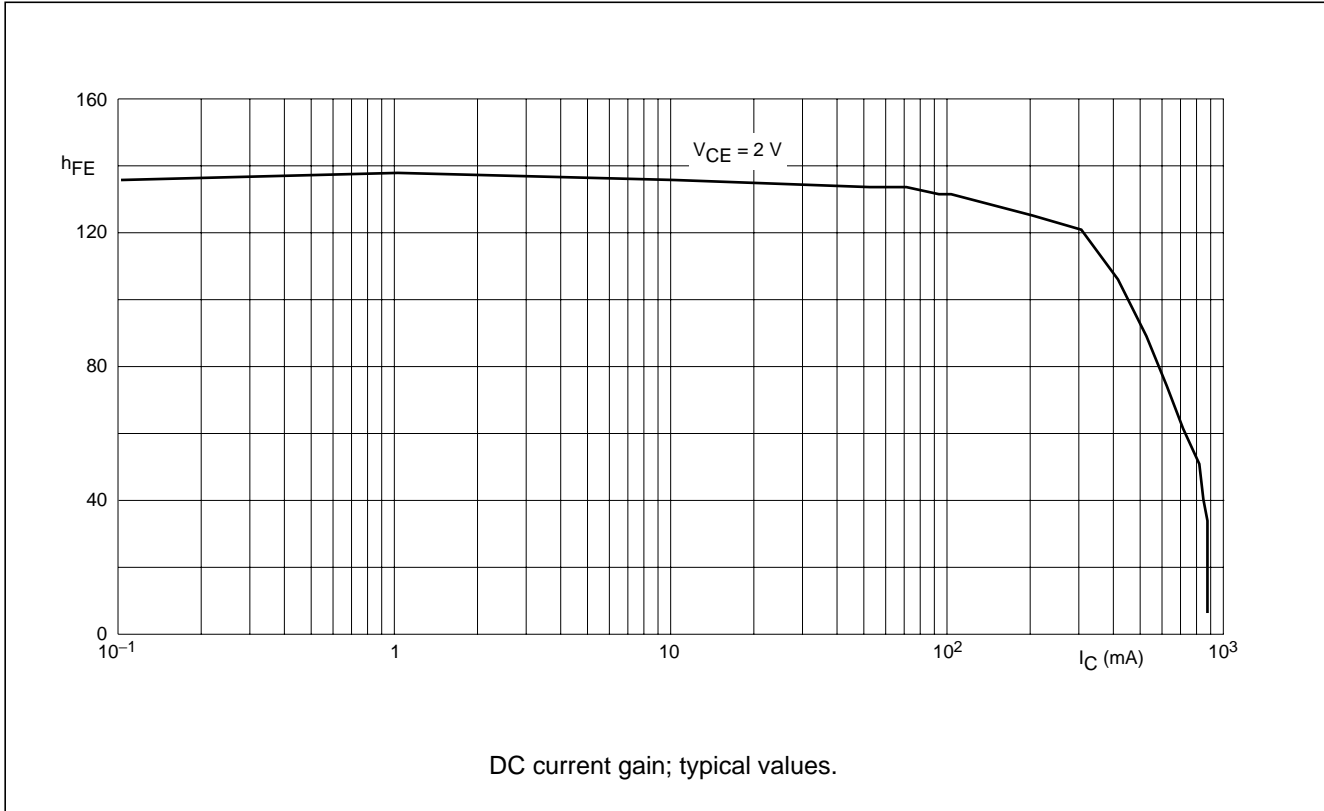
SOT-89



- 1:Base
- 2:Collector
- 3:Emitter

DIM	DIMENSINS				NOTES
	INCHES		MM		
	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





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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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