



Micro Commercial Components

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BCX51
BCX51-10
BCX51-16

Features

- Power Dissipation: $P_{CM}=0.5W$ ($T_{amb}=25^{\circ}C$)
- Collector Current: $I_{CM}=-1.0A$
- Collector-Base Voltage: $V_{(BR)CBO}=-45V$
- Marking Code: BCX56=AA, BCX56-10=AC, BCX56-16=AD
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0

Maximum Ratings

Symbol	Rating	Value	Unit
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage	-45	V
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage	-45	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

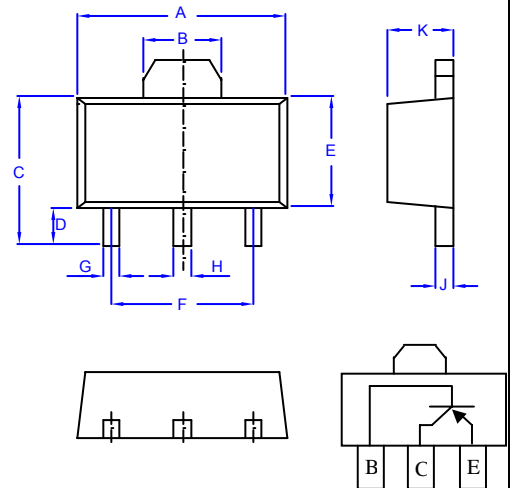
Symbol	Parameter	Min	Typ	Max	Units
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OFF CHARACTERISTICS

$V_{(BR)CBO}$	Collector-Base Breakdown Voltage ($I_C=-100\mu A, I_E=0$)	-45	---	---	V
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage ($I_C=-1mA, I_B=0$)	-45	---	---	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 ($V_{CE}=-2.0V, I_C=-150mA$)				
	BCX51	63	---	250	---
	BCX51-10	63	---	160	
	BCX51-16	100	---	250	
$h_{FE(2)}$	DC Current Gain ($V_{CE}=2.0V, I_C=-5.0mA$)	63			
$h_{FE(3)}$	DC Current Gain ($V_{CE}=-2.0V, I_C=-500mA$)	40			
$V_{CE(sat)}$	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 ($V_{CE}=-5V, I_C=-10mA, f=100MHz$)	50	---	---	MHz

PNP
Plastic-Encapsulate
Transistors

SOT-89



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	



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