



**Micro Commercial Components**

Micro Commercial Components  
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**BCX55  
 BCX55-10  
 BCX55-16**

**NPN  
 Plastic-Encapsulate  
 Transistors**

**Features**

- 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
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 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
<b>OFF CHARACTERISTICS</b>					
$V_{(BR)CBO}$	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	$\mu A$
$I_{EBO}$	Emitter Cutoff Current ( $V_{EB}=5.0V, I_C=0$ )	---	---	0.1	$\mu A$
$h_{FE(1)}$	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**

DIM	DIMENSIONS				NOTES
	INCHES		MM		
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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## Ordering Information

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

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