

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone: (818) 701-4933 Fax: (818) 701-4939 BCX54 BCX54-10 BCX54-16

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°C)
- Collector-Base Voltage: V_{(BR)CBO}=100V
- Marking: BCX54=BA, BCX54-10=BC, BCX54-16=BD
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1

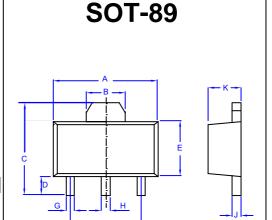
Maximum Ratings

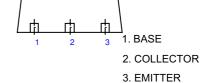
Symbol	Rating	Value	Unit
V_{CEO}	Collector-Emitter Voltage	45	V
V_{CBO}	Collector-Base Voltage	45	V
V_{EBO}	Emitter-Base Voltage	5.0	V
Ic	Collector Current DC	1.0	Α
I _{CM}	Peak Collector Current,single pulse<1mS	2.0	Α
Pc	Collector Power Dissipation	0.5	W
TJ	Junction Temperature	150	°C
T _{STG}	Storage Temperature	-55 to +150	°C

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Тур	Max	Units
OFF CHARA	CTERISTICS				
V_{CBO}	Collector-Base Voltage $(I_C=100\mu Adc, I_E=0)$	45			Vdc
V _{CEO}	Collector-Emitter Voltage (I _C =10mAdc, I _B =0)	45			Vdc
V_{EBO}	Emitter-Base Voltage (I _E =100µAdc, I _C =0)	5.0			Vdc
I _{CBO}	Collector Cutoff Current (V _{CB} =30Vdc, I _E =0)			0.1	μAdc
I _{EBO}	Emitter Cutoff Current (V _{EB} =5.0Vdc, I _C =0)			0.1	μAdc
h _{FE(1)}	DC Current Gain (V _{CE} =2.0Vdc, I _C =150mAdc)				
	BCX54 BCX54-10 BCX54-16	63 63 100		250 160 250	
h _{FE(2)}	DC Current Gain (V _{CE} =2.0Vdc, I _C =5.0mAdc)	40			
h _{FE(3)}	DC Current Gain (V _{CE} =2.0Vdc, I _C =500mAdc)	25			
V _{CE(sat)}	Collector-Emitter Saturation Voltage (I _C =500mAdc,I _B =50mAdc)			0.5	Vdc
$V_{BE(sat)}$	Base-Emitter Voltage (I _C =500mAdc, V _{CE} =2.0Vdc)			1.0	Vdc
f _⊤	Transition Frequency (V _{CE} =5Vdc, I _C =10mAdc, f=100MHz)		130		MHz

NPN Plastic-Encapsulate Transistors





	DIMENSINS						
DIM	INCHES		MM		NOTES		
	MIN	MAX	MIN	MAX			
Α	.173	.181	4.39	4.60			
В	.061		1.55		REF.		
С	.154	.165	3.91	4.25			
D	.031	.039	0.80	1.00			
Е	.092	.100	2.34	2.54			
F	.118		3.00		TYP		
G	.013	.019	0.33	0.48			
Н	.015	.021	0.38	0.53			
J	.015	.016	0.38	0.41			
K	.055	.063	1.40	1.60			



Ordering Information:

Device	Packing
Part Number-TP	Tape&Reel1Kpcs/Reel

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

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Revision: **B** 2 of 2 2017/12/12