



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Min Typ Max Units

Phone: (818) 701-4933 (818) 701-4939

BCX53 **BCX53-10 BCX53-16**

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: $P_{CM}=0.5W$ ($T_{amb}=25^{\circ}C$)
- Collector Current: I_{CM}=-1.0A
- Collector-Base Voltage: V_{(BR)CBO}=-100V
- Marking Code: BCX53=AH, BCX53-10=AK, BCX53-16=AL
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1

Maximum Ratings

Symbol

Symbol	Rating	Value	Unit
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage	-100	V
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage	-80	V
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage	-5	V
Ic	Collector Current DC	-1.0	Α
Pc	Collector Power Dissipation	0.5	W
TJ	Junction Temperature Range	-55 to +150	°C
T _{STG}	Storage Temperature Range	-55 to +150	°C

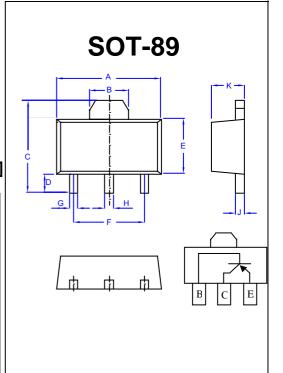
Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter

OFF CHARACTERISTICS						
V _{(BR)CBO}	Collector-Base Breakdown Voltage (I _C =-100µA, I _E =0)	-100			V	
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage * (I _C =-10mA, I _B =0)	-80			V	
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage (I _E =-100μA, I _C =0)	-5			V	
Ісво	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	μΑ	
h _{FE(1)}	DC Current Gain* (V _{CE} =-2.0V, I _C =-5mA)	63				
h _{FE(2)}	DC Current Gain * (V _{CF} =2.0V, I _C =-150mA)					
	BCX53	63		250		
	BCX53-10	63		160		
	BCX53-16	100		250		
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}	Base-Emitter Voltage* (I _C =-500mA, V _{CE} =-2.0V)			-1.0	V	
f⊤	Transition Frequency (V _{CE} =-5V, I _C =-10mA,f=100MHz)		50		MHz	

* Pulse Test

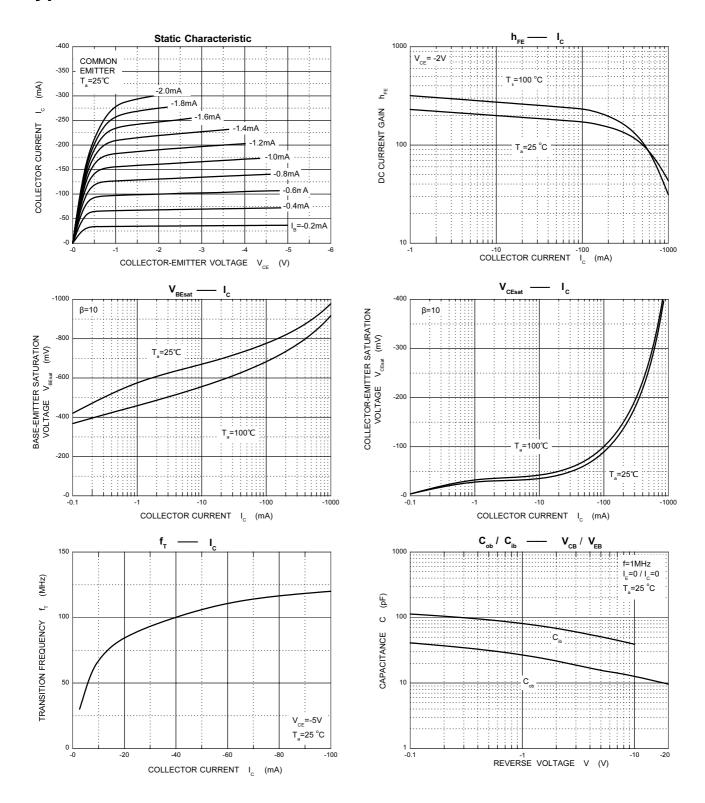
PNP Plastic-Encapsulate Transistors



DIMENSINS						
INCHES		MM		NOTES		
MIN	MAX	MIN	MAX			
.173	.181	4.39	4.60			
.061		1.55		REF.		
.154	.165	3.91	4.25			
.031	.039	0.80	1.00			
.092	.100	2.34	2.54			
.118		3.00		TYP		
.013	.019	0.33	0.48			
.015	.021	0.38	0.53			
.015	.016	0.38	0.41			
.055	.063	1.40	1.60			
	MIN .173 .061 .154 .031 .092 .118 .013 .015	INCHES MIN MAX .173 .181 .061154 .165 .031 .039 .092 .100 .118013 .019 .015 .021 .015 .021	INCHES MMN MAX MIN MAX MIN MAX MIN MAX MIN MAX MIN MAX MIN MAX M	INCHES MM MAX MIN MIN MAX MIN MAX MIN MAX MIN MAX MIN MI		



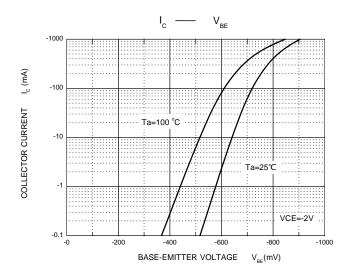
Typical Characteristics

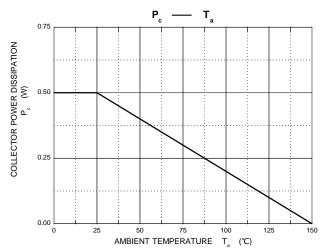


BCX53



Typical Characteristics







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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