

BCX56 BCX56-10 BCX56-16

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: $V_{(BR)CBO}=100V$
- Marking : BCX56=BH, BCX56-10=BK, BCX56-16=BL
- 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	100	V
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage	80	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(Note1)	W
		0.95(Note2)	
		1.35(Note3)	
T_J	Junction Temperature Range	-55 to +150	$^{\circ}C$
T_{STG}	Storage Temperature Range	-55 to +150	$^{\circ}C$

[1] Device mounted on an FR4 Printed-Circuit Board (PCB), single-sided copper, tin-plated and standard footprint.

[2] Device mounted on an FR4 PCB, single-sided copper, tin-plated, mounting pad for collector 1 cm².

[3] Device mounted on an FR4 PCB, single-sided copper, tin-plated, mounting pad for collector 6 cm².

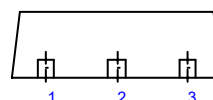
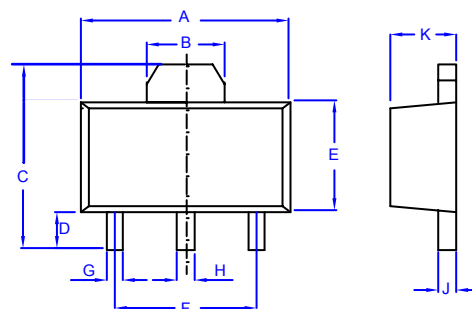
Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Typ	Max	Units
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OFF CHARACTERISTICS

V _{CBO}	Collector-Base Voltage (I _C =100μAdc, I _E =0)	100	---	---	Vdc	
V _{CEO}	Collector-Emitter Voltage (I _C =10mAdc, I _B =0)	80	---	---	Vdc	
V _{EBO}	Emitter-Base Voltage (I _E =10μAdc, 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)	BCX56	63	---	250	---
		BCX56-10	63	---	160	---
		BCX56-16	100	---	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}	Base-Emitter Voltage (I _C =500mAdc, V _{CE} =2.0Vdc)	---	---	1.0	Vdc	
f _T	Transition Frequency (V _{CE} =100Vdc, I _C =50mAdc, f=100MHz)	130	---	---	MHz	

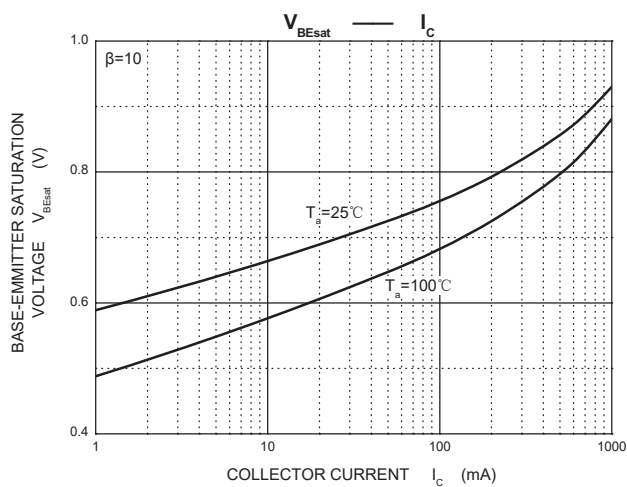
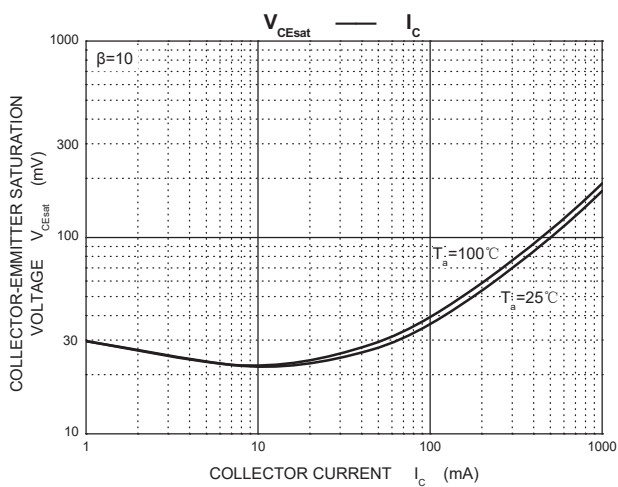
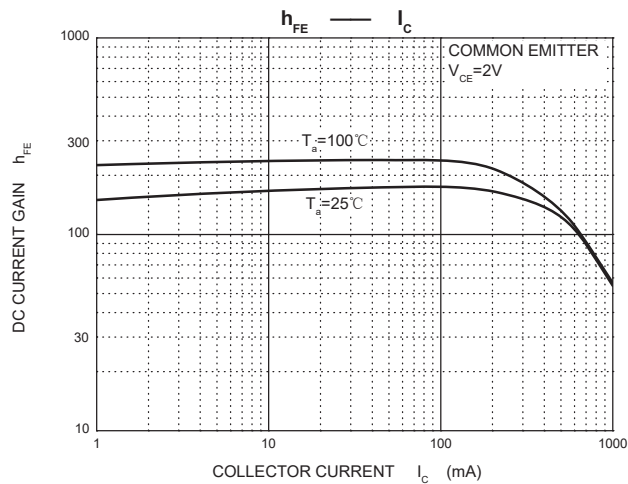
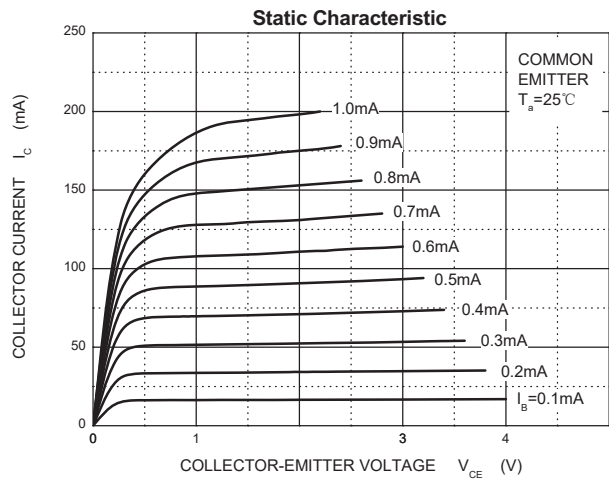
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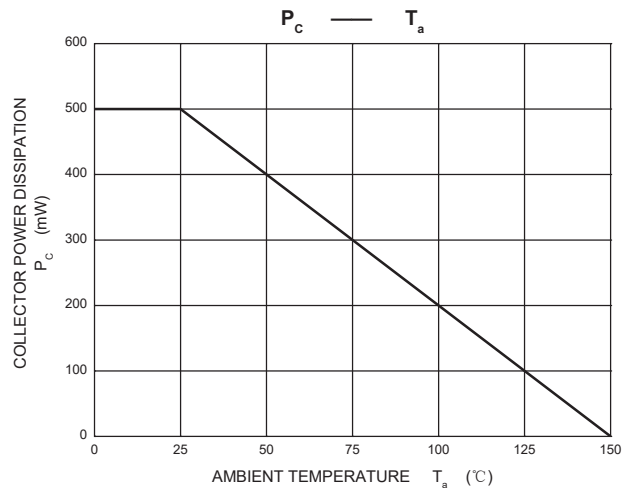
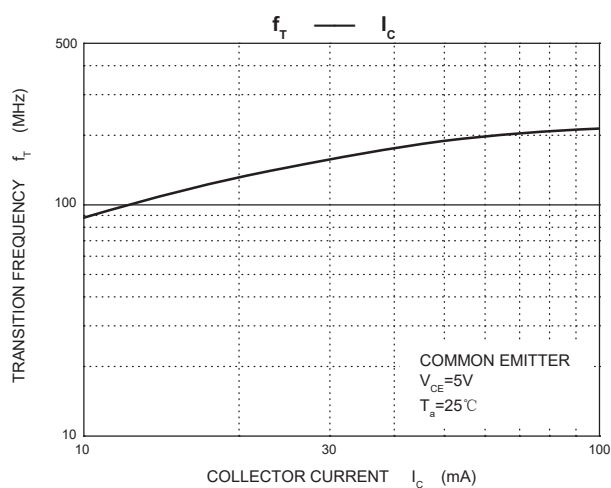
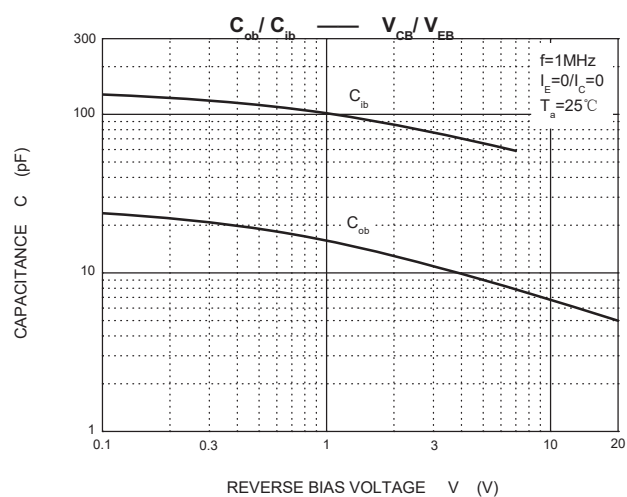
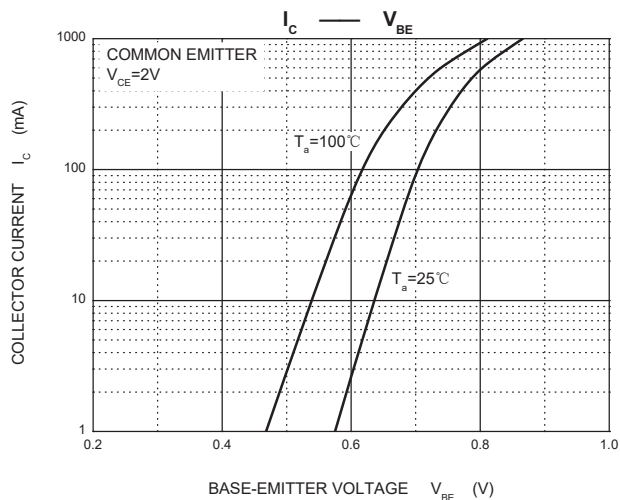
1. BASE
2. COLLECTOR
3. EMITTER

DIMENSINS					
DIM	INCHES		MM		NOTES
	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	

Typical Characteristics



Typical Characteristics



Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 1Kpcs/Reel

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

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