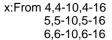


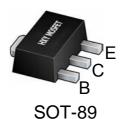
Features

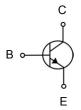
- Collector Current: I_C= 1A
- Power Dissipation of 500mw

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
BCX54,BCX55 ,BCX56	SOT-89	BCX5x	1000

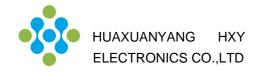






Maxmim Ratings (Ta=25 unless otherwise noted)

Symbl	Parameter	Value	Unit	
		BCX54	45	
Vсво	Collector-Base Voltage	BCX55	6	V
		BCX56	100	
		BCX54	45	V
VCEO	Collector-Emitter Voltage	BCX55	6	V
		BCX56	8	V
Vево	Emitter-Base Voltage		5	V
Ic	Collector Current-Continuous		1	Α
Pc	Collector Power Dissipation		500	mW
Tj	Junction Temperature		150	$^{\circ}$
T _{stg}	Storage Temperature		-55-150	$^{\circ}$



Electrcal Charcteristics (Ta=25 unless otherwise specified)

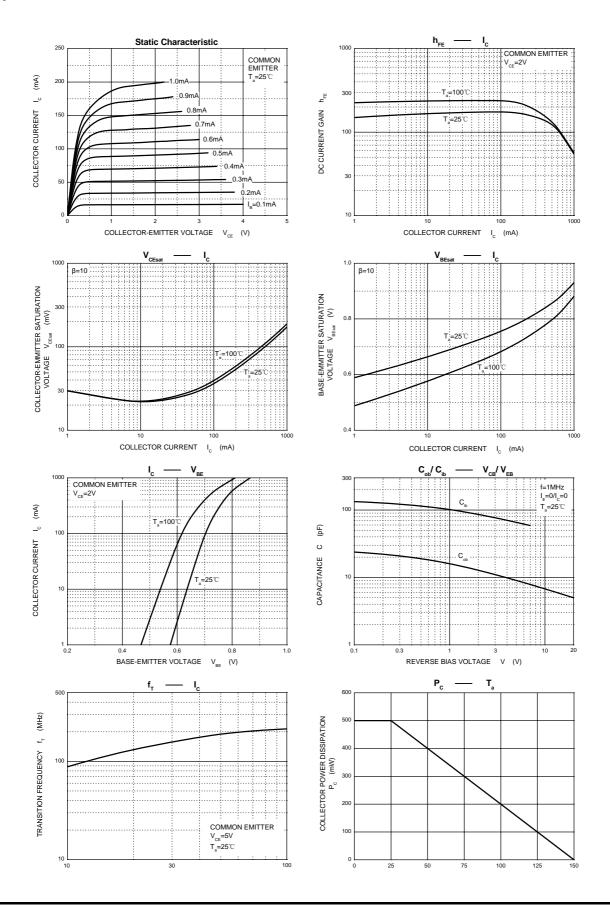
Parameter	Symbol	Test conditions		Min	Тур	Max	Unit
			BCX54	45			
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =100μA,I _E =0	BCX55	60			V
			BCX56	100			
			BCX54	45			
Collector-emitter breakdown voltage	V _{(BR)CEO*}	I _C =10mA,I _B =0	BCX55	60			V
			BCX56	80			
Emitter-base breakdown voltage	$V_{(BR)EBO}$	I _E =10μA,I _C =0		5			٧
Collector cut-off current	I _{CBO}	V _{CB} =30V,I _E =0				0.1	μΑ
Emitter cut-off current	I _{EBO}	V _{EB} =5V,I _C =0				0.1	μΑ
	h _{FE(1)*}	V _{CE} =2V, I _C =5mA		40			
DC current gain	h _{FE(2)*}	V_{CE} =2V, I_{C} =150mA		63		250	
	h _{FE(3)*}	V_{CE} =2V, I_{C} =0.5A		25			
Collector-emitter saturation voltage	V _{CE(sat)*}	I _C =0.5A,I _B =50mA				0.5	V
Base -emitter voltage	V _{BE*}	V _{CE} =2V, I _C =0.5A				1	V
Transition frequency	f _T	Vce=5V,lc=10mA, f=100MHz			130		MHz

Classifiction Of hFE

Rank	BCX54,BCX55	BCX54-10,BCX55-10	BCX54-16,BCX55-16	
	BCX56	BCX56-10	BCX56-16	
Range	63-250	63-160	100-250	

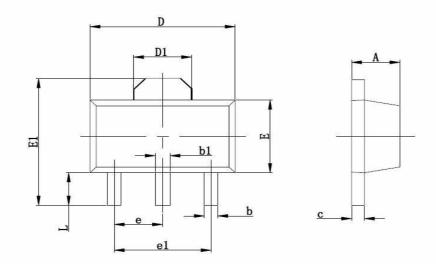


Typical Characteristics





SOT-89 Package Outline Dimensions



Symbol	Dimensions	In Millimeters	Dimensions In Inches		
	Min	Max	Min	Max	
Α	1.400	1.600	0.055	0.063	
b	0.320	0.520	0.013	0.020	
b1	0.400	0.580	0.016	0.023	
С	0.350	0.440	0.014	0.017	
D	4.400	4.600	0.173	0.181	
D1	1.550 REF.		0.061 REF.		
E	2.300	2.600	0.091	0.102	
E1	3.940	4.250	0.155	0.167	
е	1.500 TYP.		0.060 TYP.		
e1	3.000 TYP.		0.118 TYP.		
L	0.900	1.200	0.035	0.047	



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