



SOT-89 Plastic-Encapsulate Transistors

BCX54,BCX55,BCX56 TRANSISTOR(NPN)

FEATURES

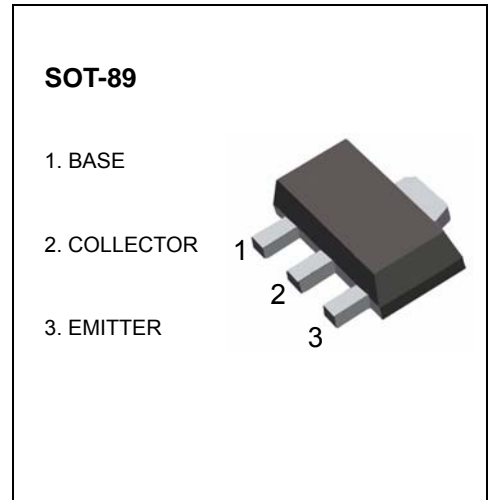
- High current
- Low voltage
- Medium power general purposes
- Driver stages of audio amplifiers.

MAKING: BCX54:BA BCX54-10:BC BCX54-16:BD

BCX55:BE BCX55-10:BG BCX55-16:BM

BCX56:BH BCX56-10:BK BCX56-16:BL

MAXIMUM RATINGS (T_A=25°C unless otherwise noted)



Symbol	Parameter	Value	Units
V _{CBO}	Collector-Base Voltage	BCX54	45
		BCX55	60
		BCX56	100
V _{CEO}	Collector-Emitter Voltage	BCX54	45
		BCX55	60
		BCX56	80
V _{EBO}	Emitter-Base Voltage	5	V
I _C	Collector Current -Continuous	1	A
P _C	Collector Power Dissipation	500	mW
T _J	Junction Temperature	150	°C
T _{stg}	Storage Temperature	-65-150	°C

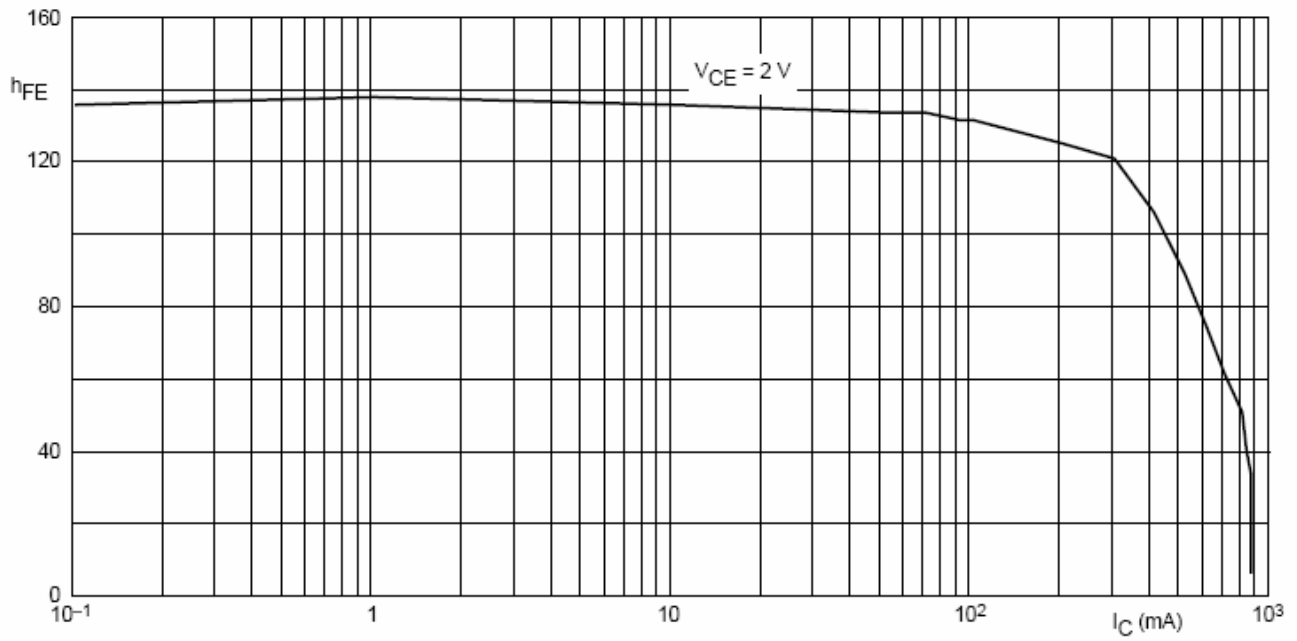
ELECTRICAL CHARACTERISTICS (T_{amb}=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =100μA, I _E =0	BCX54	45		V
			BCX55	60		
			BC56	100		
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =1mA, I _B =0	BCX54	45		V
			BCX55	60		
			BCX56	80		
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =100μA, I _C =0	5			V
Collector cut-off current	I _{CBO}	V _{CB} =30V, I _E =0			0.1	μA
Emitter cut-off current	I _{EBO}	V _{EB} =5V, I _C =0			0.1	μA
DC current gain	h _{FE(1)}	V _{CE} =2V, I _C =5mA	40			
		V _{CE} =2V, I _C =150mA	63		250	
		V _{CE} =2V, I _C =500mA	25			
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =-500mA, I _B =-50mA			0.5	V
Base-emitter voltage	V _{BE}	V _{CE} =2V, I _C =500mA			1	V
Transition frequency	f _T	V _{CE} =5V, I _C =10mA, f=100MHz		130		MHz

CLASSIFICATION OF $h_{FE(2)}$

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

Typical Characteristics



DC current gain; typical values.