

FEATURES

- PNP Complements to BCX51,BCX52,BCX53
- Low Voltage
- High Current

APPLICATIONS

- Driver Stages of Audio Amplifiers

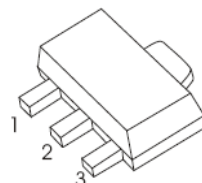
MARKING:BCX54:BA, BCX54-10:BC, BCX54-16:BD
BCX55:BE, BCX55-10:BG, BCX55-16BM
BCX56:B H, BCX56-10:BK, BCX56-16:BL

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

Symbol	Parameter		Value	Unit
V _{CBO}	Collector-Base Voltage	BCX54	45	V
		BCX55	60	
		BCX56	100	
V _{CEO}	Collector-Emitter Voltage	BCX54	45	V
		BCX55	60	
		BCX56	80	
V _{EBO}	Emitter-Base Voltage		5	V
I _C	Collector Current		1	A
P _C	Collector Power Dissipation		500	mW
R _{θJA}	Thermal Resistance From Junction To Ambient		250	°C/W
T _J	Junction Temperature		150	°C
T _{stg}	Storage Temperature		-55~+150	°C

SOT-89-3L

1. BASE
2. COLLECTOR
3. EMITTER



Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C=100\text{mA}, I_E=0$	BCX54	45		V
			BCX55	60		
			BCX56	100		
Collector-emitter breakdown voltage	$V_{(BR)CEO}^*$	$I_C=10\text{mA}, I_B=0$	BCX54	45		V
			BCX55	60		
			BCX56	80		
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E=100\text{mA}, I_C=0$		5		V
Collector cut-off current	I_{CBO}	$V_{CB}=30\text{V}, I_E=0$			0.1	mA
Emitter cut-off current	I_{EBO}	$V_{EB}=5\text{V}, I_C=0$			0.1	mA
DC current gain	$h_{FE(1)}^*$	$V_{CE}=2\text{V}, I_C=5\text{mA}$	40			
	$h_{FE(2)}^*$	$V_{CE}=2\text{V}, I_C=150\text{mA}$	63		250	
	$h_{FE(3)}^*$	$V_{CE}=2\text{V}, I_C=0.5\text{A}$	25			
Collector-emitter saturation voltage	$V_{CE(sat)}^*$	$I_C=0.5\text{A}, I_B=50\text{mA}$			0.5	V
Base-emitter voltage	V_{BE}^*	$V_{CE}=2\text{V}, I_C=0.5\text{A}$			1	V
Transition frequency	f_T	$V_{CE}=5\text{V}, I_C=10\text{mA}, f=100\text{MHz}$		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

