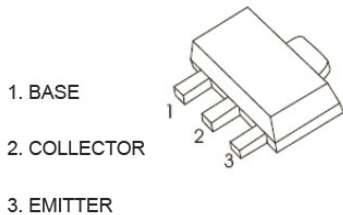


SOT-89-3L

SOT-89-3L 贴片塑封三极管

SOT-89-3L Plastic-Encapsulate Transistors



MARKING: BCX51:AA, BCX51-10:AC, BCX51-16:AD
 BCX52:AE, BCX52-10:AG, BCX52-16:AM
 BCX53:A H, BCX53-10:AK, BCX53-16:AL

特征 Features

- Complementary to BCX54,BCX55,BCX56;
- Medium Power General Purposes;
- Driver Stages of Audio Amplifiers.

机械数据 Mechanical Data

- SOT-89-3L Small Outline Plastic Package
- Epoxy UL: 94V-0
- Mounting Position: Any

极限值和温度特性(TA = 25°C 除非另有规定)

Maximum Ratings & Thermal Characteristics (Ratings at 25°C ambient temperature unless otherwise specified.)

参数 Parameters	符号 Symbol	TYPE	数值 Value	单位 Unit
Collector-Base Voltage	V _{CB0}	BCX51 BCX52 BCX53	-45 -60 -100	V
Collector-Emitter Voltage	V _{CEO}	BCX51 BCX52 BCX53	-45 -60 -80	V
Emitter -Base Voltage	V _{EBO}		-5	V
Collector Current-Continuous	I _c		-1.0	A
Collector Power Dissipation	P _c		500	mW
Junction Temperature	T _j		150	°C
Storage Temperature	T _{stg}		-55-+150	°C
Thermal resistance From junction to ambient	R _{θJA}		250	°C/W

电特性 (TA = 25°C 除非另有规定)

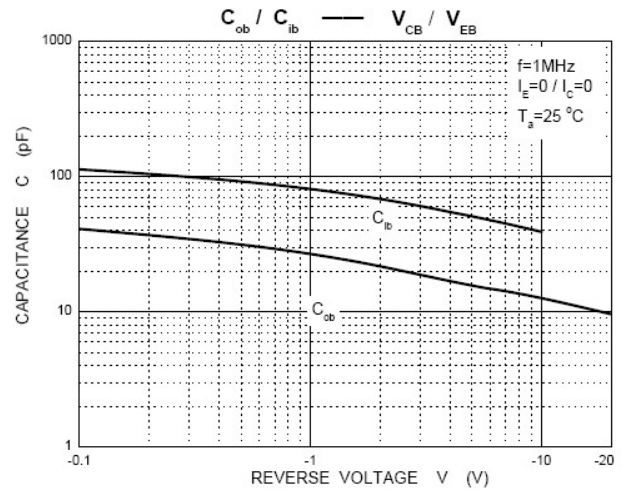
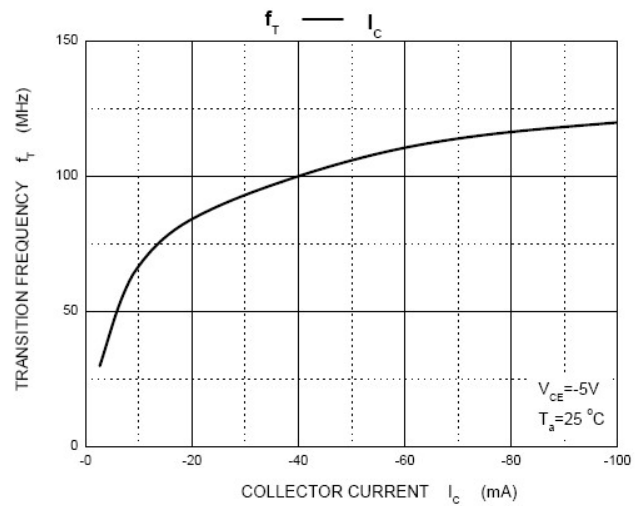
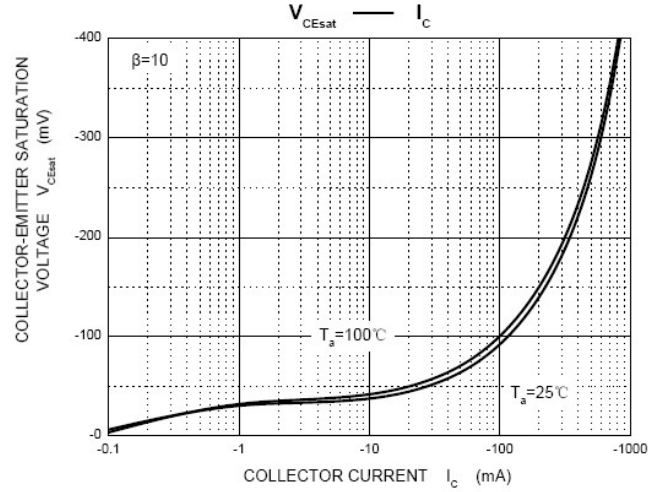
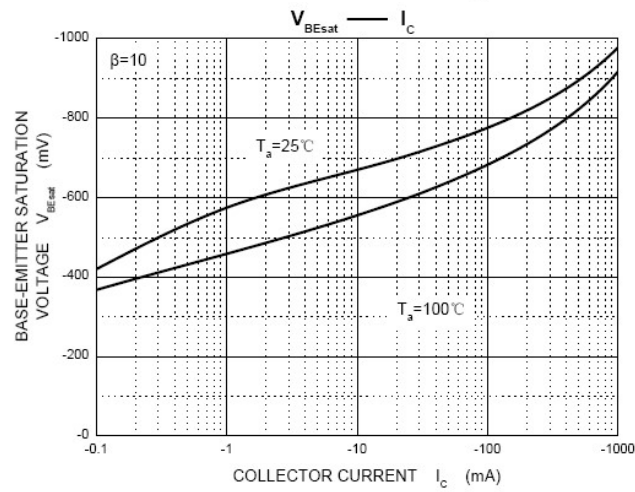
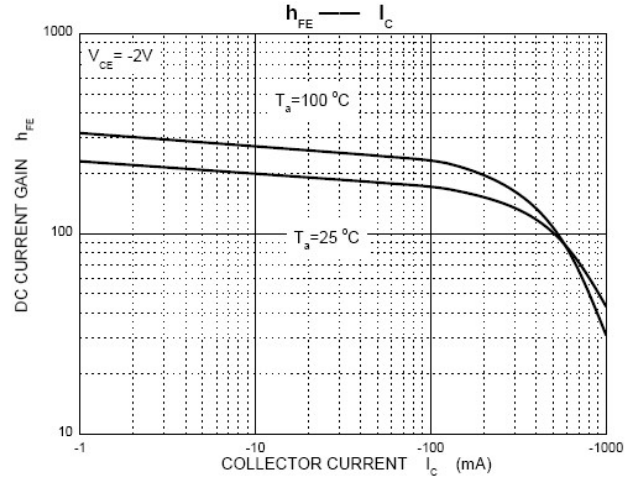
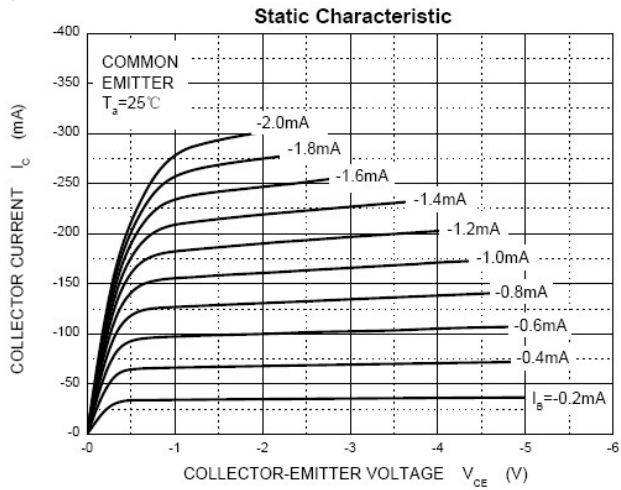
Electrical Characteristics (Ratings at 25°C ambient temperature unless otherwise specified.)

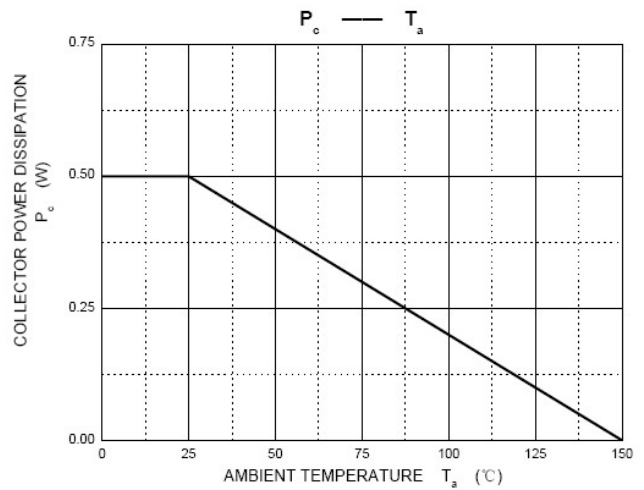
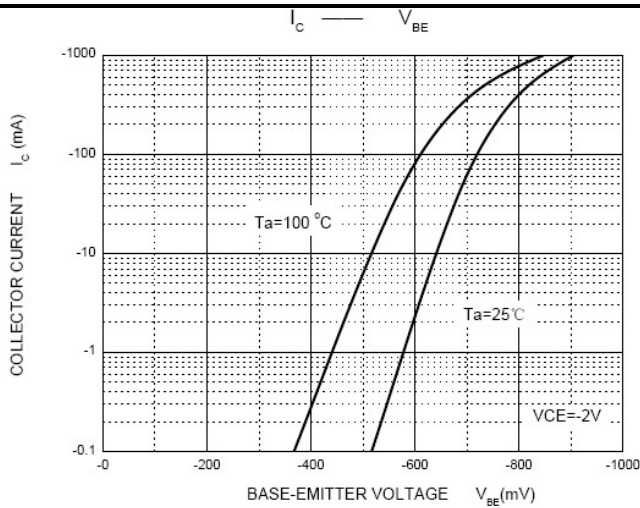
参数 Parameter	符号 Symbols	测试条件 Test Condition	界限 Limits			单位 Unit
			Min	Typ	Max	
Collector-base breakdown voltage	V(BR)CBO	I _C =-100uA, I _E =0	BCX51 BCX52 BCX53	-45 -60 -100		V
Collector-emitter breakdown voltage	V(BR)CEO	I _C =-10mA, I _B =0	BCX51 BCX52 BCX53	-45 -60 -80		V
Emitter-base breakdown voltage	V(BR)EBO	I _E =-100uA, I _C =0		-5		V
Collector cut-off current	I _{CB0}	V _{CB} =-30V, I _E =0			-100	nA
Emitter cut-off current	I _{EBO}	V _{EB} =-5V, I _C =0			-100	nA
DC current gain	hFE(1)	V _{CE} =-2V, I _C =-5mA		63		
	hFE(2)	V _{CE} =-2V, I _C =-150mA		63	250	
	hFE(3)	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			-1.0	V
Transition frequency	f _t	V _{CE} =-5V, I _C =-10mA, f=100MHz		50		MHz

CLASSIFICATION OF hFE(2)

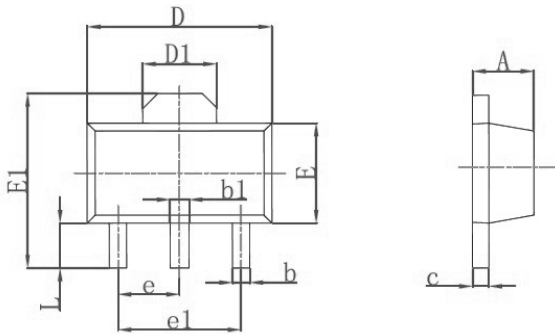
RANK	BCX51 BCX52 BCX53	BCX51-10 BCX52-10 BCX53-10	BCX51-16 BCX52-16 BCX53-16
RANGE	63-250	63-160	100-250

Typical characteristics





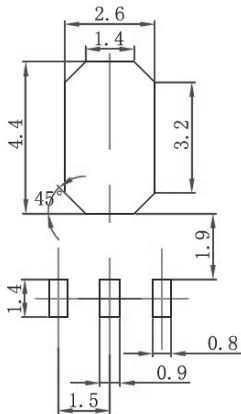
SOT-89-3L PACKAGE OUTLINE Plastic surface mounted package



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	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
c	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
e	1.500 TYP.		0.060 TYP.	
e1	3.000 TYP.		0.118 TYP.	
L	0.900	1.200	0.035	0.047

焊盘设计参考 Precautions: PCB Design

Recommended land dimensions for SOT-89-3L diode. Electrode patterns for PCBs



Note:

1. Controlling dimension: in millimeters.
2. General tolerance: $\pm 0.05\text{mm}$.
3. The pad layout is for reference purposes only.

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