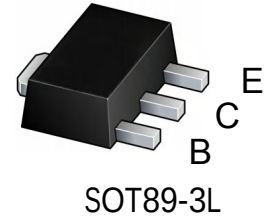


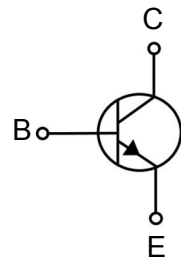
FEATURES

- Collector Current: $I_C=1A$
- Power Dissipation of 1.5w



Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
BCP54	SOT89-3L	BCP54	1000
BCP55	SOT89-3L	BCP55	1000
BCP56	SOT89-3L	BCP56	1000



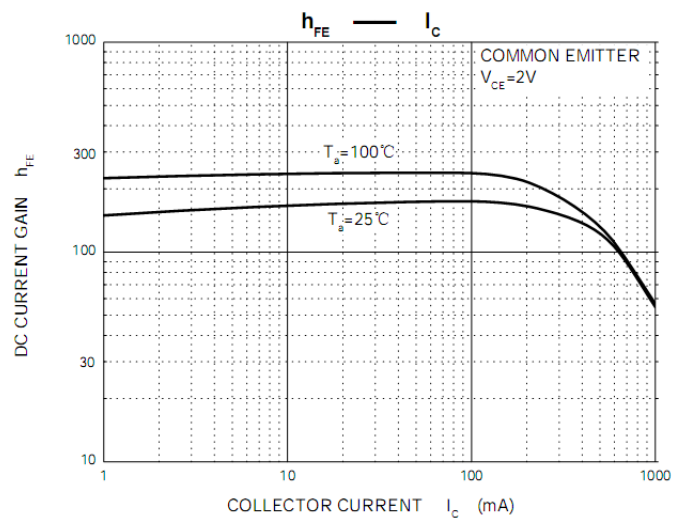
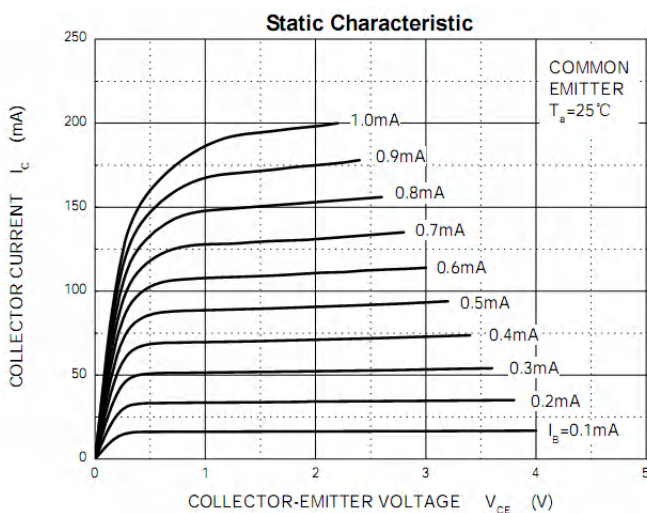
MAXIMUM RATINGS (Ta=25°C unless otherwise noted)

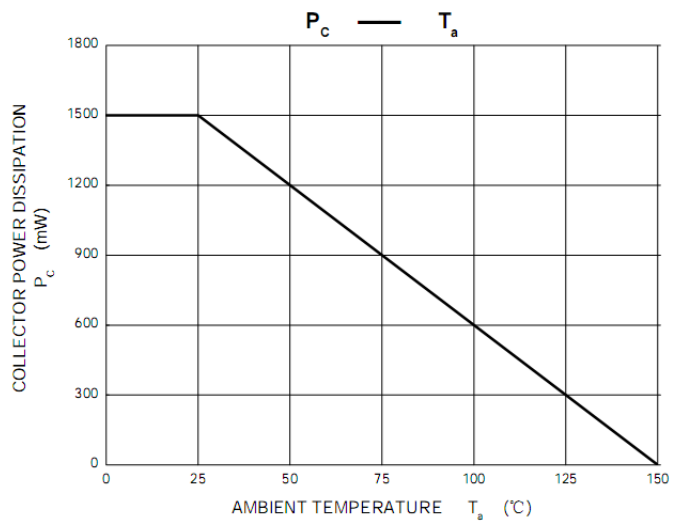
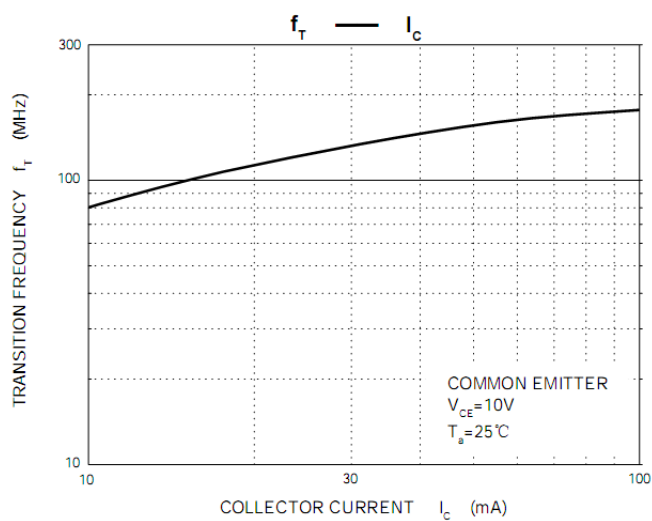
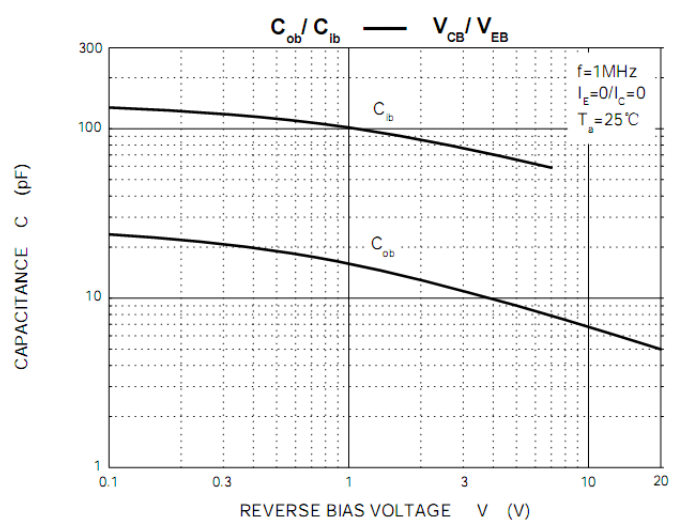
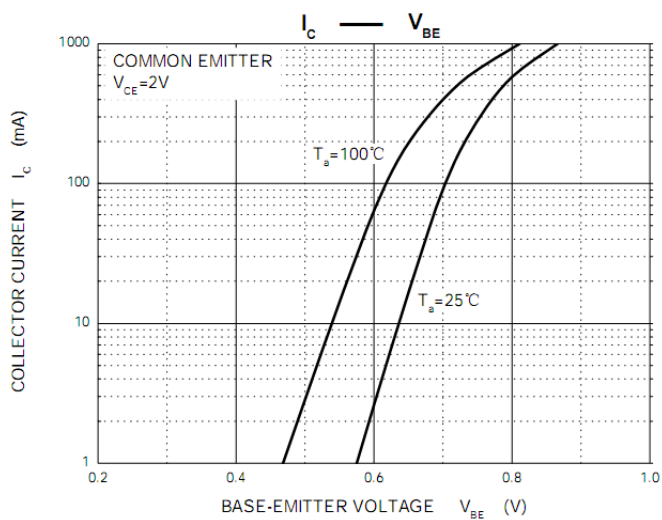
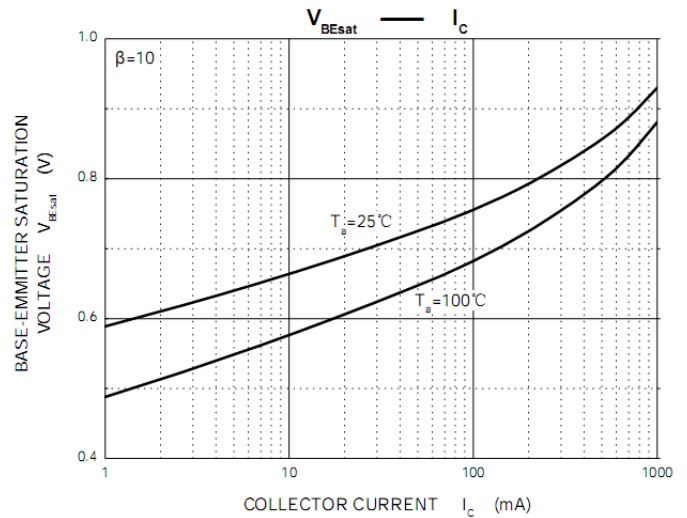
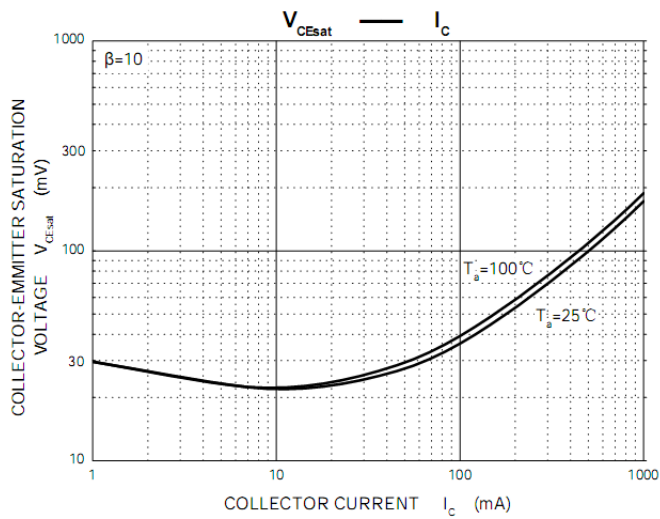
Parameter	Symbol	Limit	Unit
Collector-Base Voltage	V_{CBO}	45	V
		60	
		100	
Collector-Emitter Voltage	V_{CEO}	45	V
		60	
		80	
Emitter-Base Voltage	V_{EBO}	5	V
Collector Current	I_C	1	A
Collector Power Dissipation	P_C	1.5	W
Thermal Resistance From Junction To Ambient	$R_{\theta JA}$	83.3	°C/W
Junction Temperature	T_J	150	°C
Storage Temperature	T_{stg}	-55~+150	°C

ELECTRICAL CHARACTERISTICS $T_a=25^\circ\text{C}$ unless otherwise specified

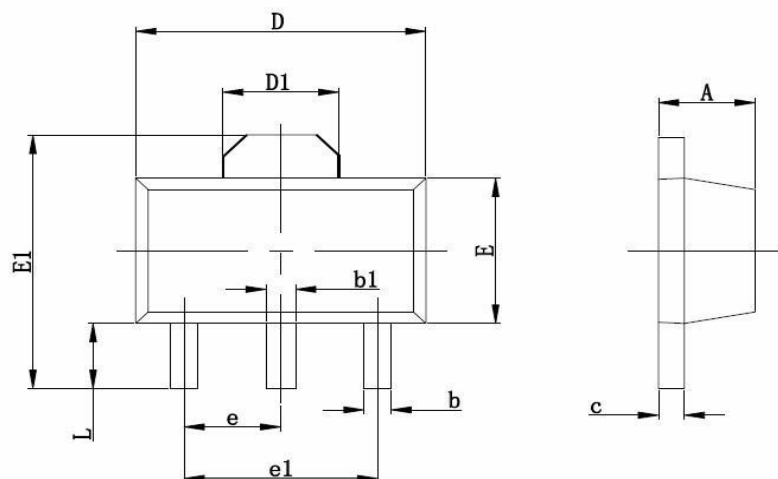
Parameter	Symbol	Test conditions	Min	Max	Unit
Collector-base breakdown voltage	BCP54 BCP55 BCP56	$V_{(BR)CBO}$	45 60 100		V
Collector-emitter breakdown voltage	BCP54 BCP55 BCP56	$V_{(BR)CEO}$	45 60 80		V
Base-emitter breakdown voltage		$V_{(BR)EBO}$	5		V
Collector cut-off current		I_{CBO}		100	nA
DC current gain	$h_{FE(1)}$	$V_{CE}=2V, I_C=5mA$	25		
	$h_{FE(2)}$	$V_{CE}=2V, I_C=150mA$	63	250	
	$h_{FE(3)}$	$V_{CE}=2V, I_C=500mA$	25		
Collector-emitter saturation voltage		$V_{CE(sat)}$		0.5	V
Base-emitter voltage		V_{BE}		1	V
Transition frequency		f_T	100		MHz

Typical Characteristics





SOT89-3L Package Outline Dimensions



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