

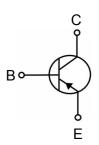
FEATURES

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



Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
BCP51	SOT89-3L	BCP51	1000
BCP52	SOT89-3L	BCP52	1000
BCP53	SOT89-3L	BCP53	1000



MAXIMUM RATINGS (Ta=25 unless otherwise noted)

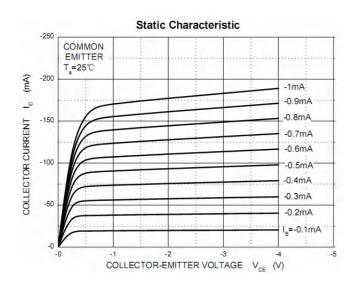
Parameter		Symbol	Limit	Unit
	BCP51		-45	
Collector-Base Voltage	BCP52	V _{CBO}	-60	V
	BCP53		-100	
	BCP51		-45	
Collector-Emitter Voltage	BCP52	V _{CEO}	-60	V
	BCP53		-80	
Emitter-Base Voltage		V _{EBO}	-5	V
Collector Current		Ι _c	-1	А
Collector Power Dissipation		P _c	1.5	W
Thermal Resistance From Junction To Ambient		R _{oja}	94	°CW
Junction Temperature		T _j	150	°C
Storage Temperature		T _{stg}	-55~+150	°C

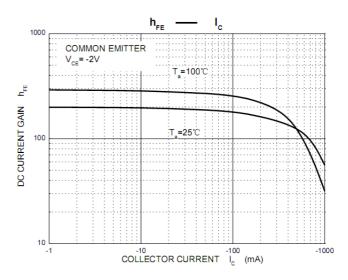


ELECTRICAL CHARACTERISTICS T_a =25 °C unless otherwise specified

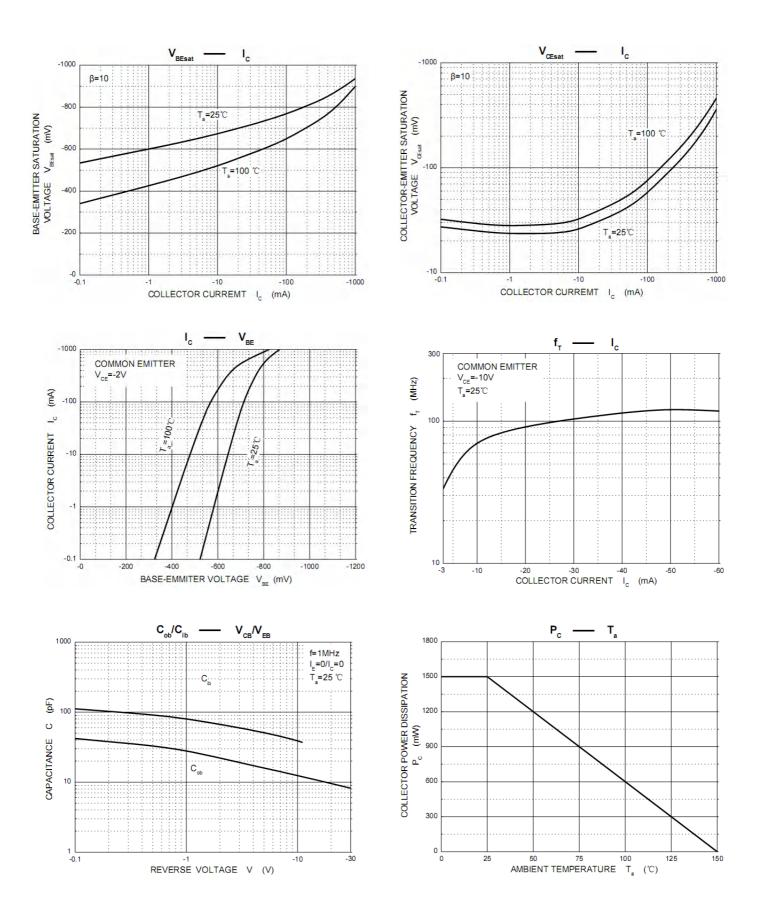
Parameter		Symbol	Test conditions	Min	Мах	Unit
Collector-base breakdown voltage	BCP51			-45		
	BCP52	V _{(BR)CBO}	I _C =- 0.1mA,I _E =0	-60		V
	BCP53			-100		
Collector-emitter breakdown voltage BCP51				-45		
	BCP52	V _{(BR)CEO}	I _C = -10mA,I _B =0	-60		V
	BCP53			-80		
Base-emitter breakdown voltage		V _{(BR)EBO}	Ι _E = -10μΑ,Ι _C =0	-5		V
Collector cut-off current		I _{CBO}	V _{CB} = -30 V, I _E =0		-100	nA
		h _{FE(1)}	V _{CE} =-2V, I _C =-5mA	25		
DC current gain		h _{FE(2)}	V _{CE} = -2V, I _C =-150m A	63	250	
		h _{FE(3)}	V _{CE} = -2V, I _C =-500m A	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 =-500m A		-1	V
Transition frequency		f⊤	V _{CE} =-10V,I _C =-50mA,f=100MHz	100		MHz

Typical Characteristics



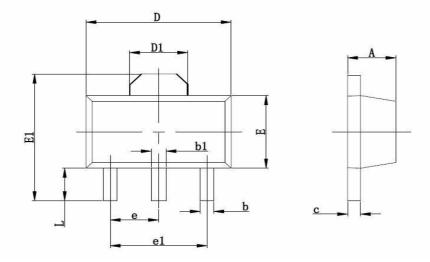








SOT89-3L Package Outline Dimensions



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	
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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