

FEATURES

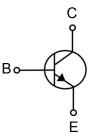
- Collector Current: I_C=1A
- Power Dissipation of 1.5w





Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
BCP54	SOT-223	BCP54	1000
BCP55	SOT-223	BCP55	1000
BCP56	SOT-223	BCP56	1000



MAXIMUM RATINGS (Ta=25 unless otherwise noted)

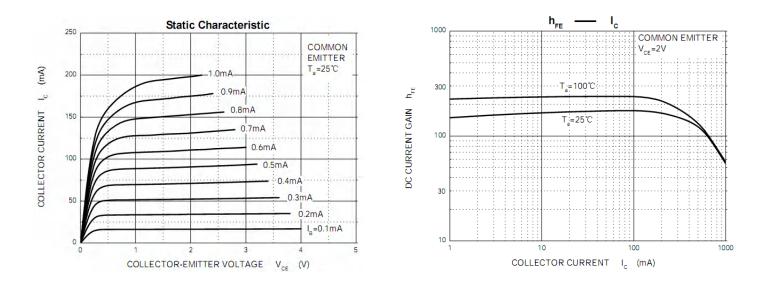
Parameter		Symbol	Limit	Unit
	BCP54		45	
Collector-Base Voltage	BCP55	V _{CBO}	60	V
	BCP56		100	
	BCP54		45	
Collector-Emitter Voltage	BCP55	V _{CEO}	60	V
	BCP56	80		
Emitter-Base Voltage		V _{EBO}	5	V
Collector Current		I _c	1	А
Collector Power Dissipation		P _c	1.5	W
Thermal Resistance From Junction To Ambient		R _{oja}	83.3	°CW
Junction Temperature		T _j	150	°C
Storage Temperature		T _{stg}	-55~+150	°C



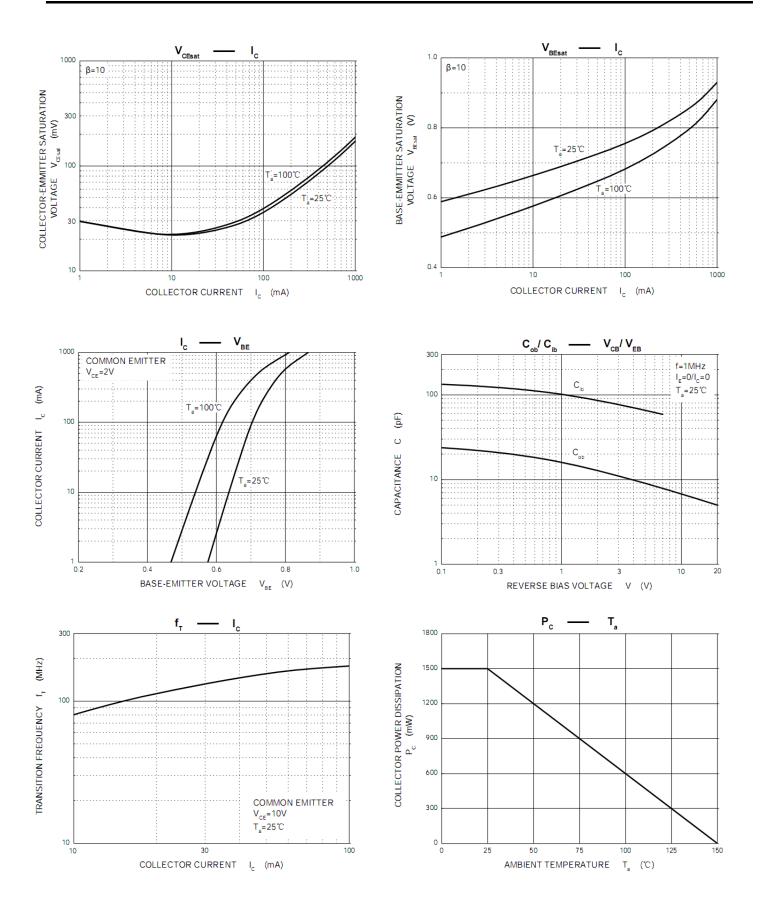
ELECTRICAL CHARACTERISTICS T_a =25 $^\circ\!\!\!C$ unless otherwise specified

Parameter		Symbol	Test conditions	Min	Max	Unit
Collector-base breakdown voltage	BCP54			45		
	BCP55	V _{(BR)CBO}	$I_{C}=0.1\text{mA},I_{E}=0$	60		V
	BCP56			100		
Collector-emitter breakdown voltage	BCP54			45		
	BCP55	V _{(BR)CEO}	I_{C} = 10mA, I_{B} =0	60		V
	BCP56			80		
Base-emitter breakdown voltage		V _{(BR)EBO}	I _E = 10μΑ,I _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 _T	V _{CE} =10V,I _C =50mA,f=100MHz	100		MHz

Typical Characteristics

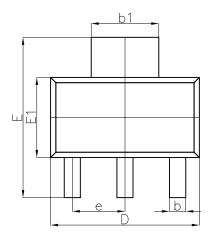


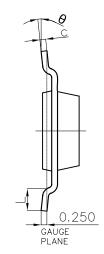


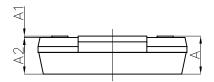




SOT-223 Package Outline Dimensions







Symbol	Dimensions In	n Millimeters	Dimensions In Inches		
	Min.	Max.	Min.	Max.	
А		1.800		0.071	
A1	0.020	0.100	0.001	0.004	
A2	1.500	1.700	0.059	0.067	
b	0.660	0.840	0.026	0.033	
b1	2.900	3.100	0.114	0.122	
С	0.230	0.350	0.009	0.014	
D	6.300	6.700	0.248	0.264	
E	6.700	7.300	0.264	0.287	
E1	3.300	3.700	0.130	0.146	
е	2.300(BSC)		0.091(BSC)		
L	0.750		0.030		
θ	0°	10°	0°	10°	



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