

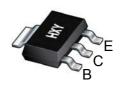
Features

Collector Current: I_C=1A

• Power Dissipation of 1.5W

Package Marking and Ordering Information

Product ID Pack		Marking	Qty(PCS)
BCP56-16TX	SOT-223	BCP56	1000





SOT-223

Maxmim Ratings (Ta=25 unless otherwise noted)

Parameter	Symbol	Limit	Unit
Collector-Base Voltage	V _{CBO}	100	V
Collector-Emitter Voltage	V _{CEO}	80	V
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	°CM
Junction Temperature	T _j	150	°C
Storage Temperature	T _{stg}	-55∼+150	°C

Classifiction Of hFE

Rank BCP54-10, BCP55-10, BCP56-10		BCP54-16, BCP55-16, BCP56-16		
Range	63-160	100-250		
Marking	BCP54-10, BCP55-10, BCP56-10	BCP54-16, BCP55-16, BCP56-16		

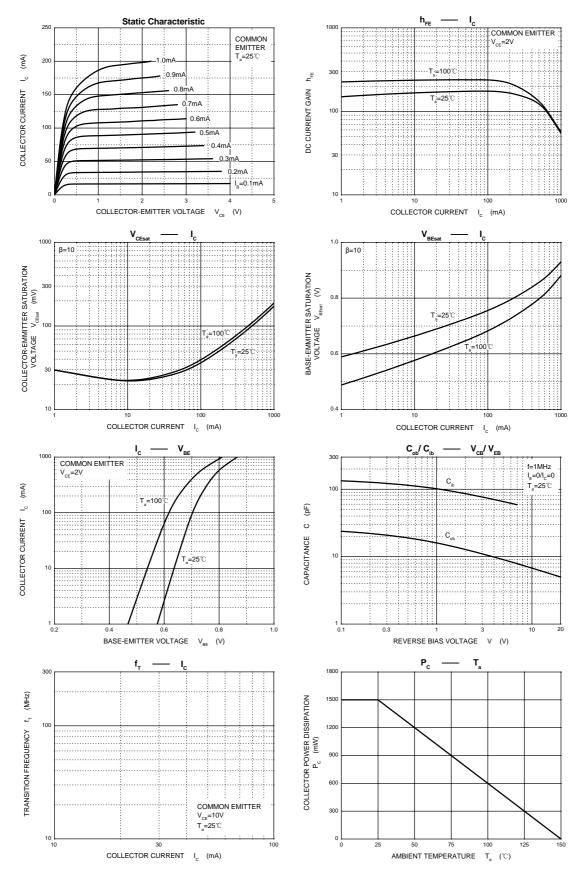


Electrcal Charcteristics (Ta=25 unless otherwise specified)

Parameter	Parameter Symbol Test conditions		Min	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C = 0.1mA,I _E =0	100		V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C = 10mA,I _B =0	80		V
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



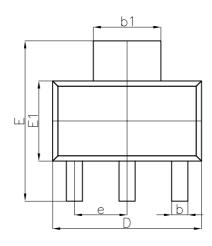
Typical Characteristics

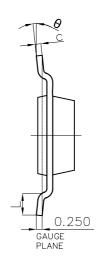


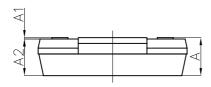


Package Dimensions

SOT-223







Symbol	Dimensions In Millimeters		Dimensions In Inches		
Symbol	Min.	Max.	Min.	Max.	
Α		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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