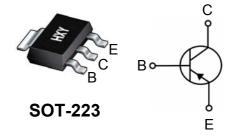


Features

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

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
PZTA56	SOT-223	BCP53	1000



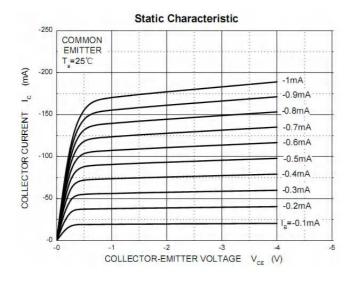
Maximum Ratings (Ta=255°C unless otherwise noted)

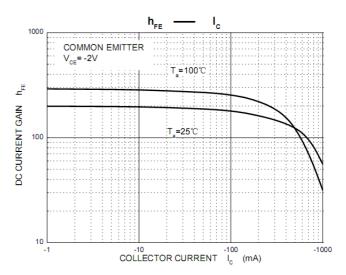
Parameter	Symbol	Limit	Unit
Collector-Base Voltage	V _{CBO}	-100	V
Collector-Emitter Voltage	V _{CEO}	-80	V
Emitter-Base Voltage	V _{EBO}	-5	V
Collector Current	I _C	-1	А
Collector Power Dissipation	P _C	1.5	W
Thermal Resistance From Junction To Ambient	R _{ΘJA}	94	°CM
Junction Temperature	T _j	150	℃
Storage Temperature	T _{stg}	-55∼+150	℃

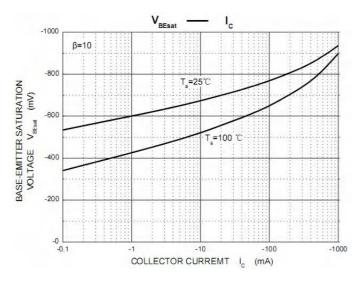
Electrical Characteristics(Ta=25°C unless otherwise specified)

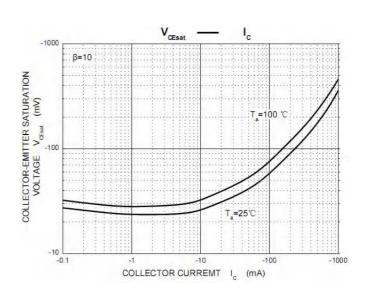
Parameter	Symbol	Test conditions	Min	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =- 0.1mA,I _E =0	-100		V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C = -10mA,I _B =0	-80		V
Base-emitter breakdown voltage	V _{(BR)EBO}	I _E = -10μA,I _C =0	-5		V
Collector cut-off current	I _{CBO}	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⊤	V _{CE} =-10V,I _C =-50mA,f=100MHz	100		MHz

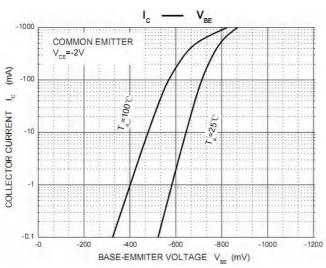
Typical Characteristics

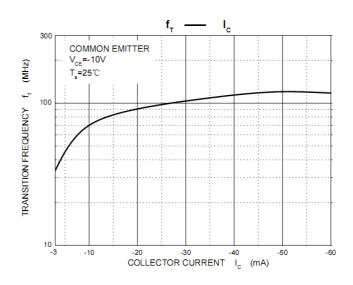


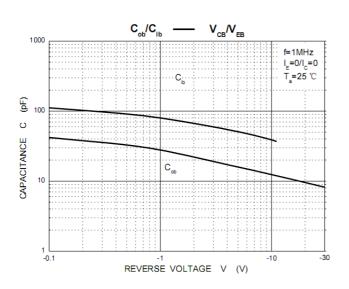


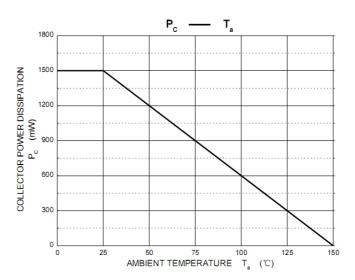






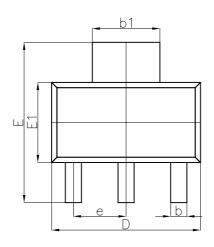


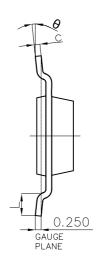






SOT-223(SOT-223-3) Package Outline Dimensions







Symbol	Dimensions In Millimeters		Dimensions In Inches		
	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(2.300(BSC)		0.091(BSC)	
L	0.750		0.030		
θ	0°	10°	0°	10°	



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