

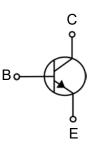
Features

- Collector Current: I_C=2A
- Power Dissipation of 500mW



Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
PBSS4250X	SOT-89	MY	1000



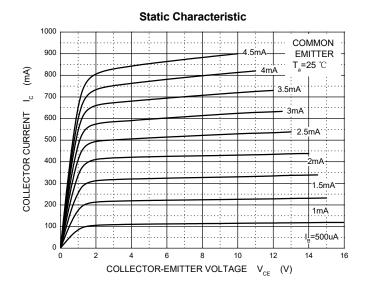
Maximum Ratings (Ta=25°C unless otherwise noted)

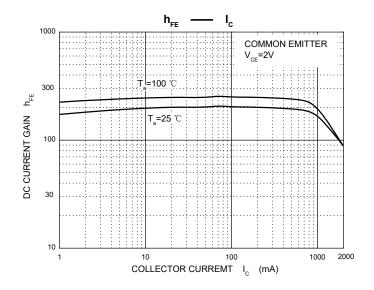
Parameter	Symbol	Limit	Unit
Collector-Base Voltage	V _{CBO}	50	V
Collector-Emitter Voltage	V _{CEO}	50	V
Emitter-Base Voltage	V _{EBO}	5	V
Collector Current	I _C	2	А
Collector Power Dissipation	P _C	500	mW
Thermal Resistance From Junction To Ambient	$R_{\Theta JA}$	250	°C/W
Junction Temperature	T _j	150	°C
Storage Temperature	T _{stg}	-55∼+150	°C

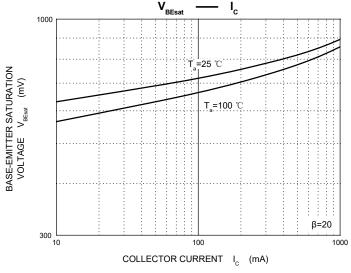
Electrical Characteristics(Ta=25°C unless otherwise specified)

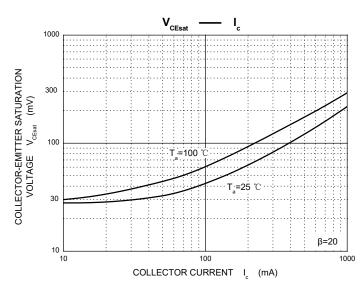
Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =100μA,I _E =0	50			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =1mA,I _B =0	50			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =100μA,I _C =0	5			V
Collector cut-off current	I _{CBO}	V _{CB} =50V,I _E =0			0.1	μA
Emitter cut-off current	I _{EBO}	V _{EB} =5V,I _C =0			0.1	μA
DC assument main	h _{FE(1)}	V _{CE} =2V, I _C =0.5A	120		240	
DC current gain	h _{FE(2)}	V _{CE} =2V, I _C =2A	20			
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =1A,I _B =50mA			0.5	W
Base-emitter saturation voltage	V _{BE(sat)}	I _C =1A,I _B =50mA			1.2	W
Transition frequency	f⊤	Vce=2V,Ic=0.5A		120		MHz
Collector output capacitance	C _{ob}	V _{CB} =10V, I _E =0, f=1MHz		30		pF

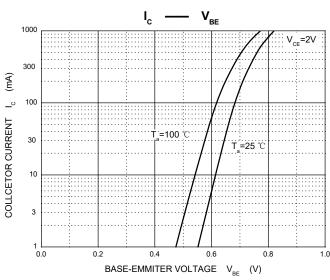
Typical Characteristics

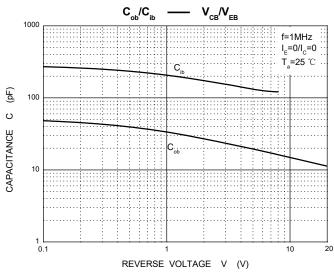


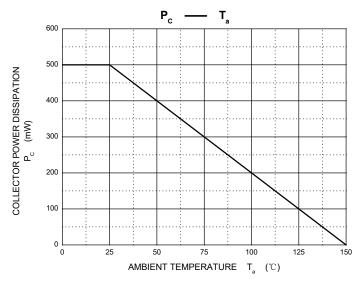




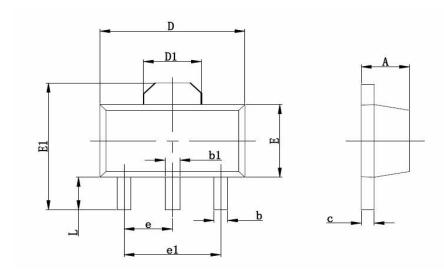








SOT-89(TO-243AA) Package Outline Dimensions



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