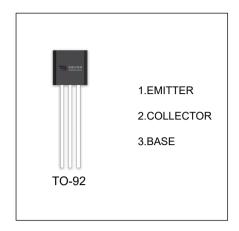


\$\$8050 TRANSISTOR (NPN)

FEATURES

Power Dissipation

 P_{CM} : 1 W $(T_a=25^{\circ}C)$: 2 W $(T_c=25^{\circ}C)$



ORDERING INFORMATION

Part Number	Package	Packing Method	Pack Quantity
SS8050	TO-92	Bulk	1000pcs/Bag
SS8050-TA	TO-92	Tape	2000pcs/Box

MAXIMUM RATINGS (Ta=25°C unless otherwise noted)

Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	40	V
V _{CEO}	Collector-Emitter Voltage	25	V
V _{EBO}	Emitter-Base Voltage	5	V
Ic	Collector Current -Continuous	1.5	Α
P _D	Collector Power Dissipation	625	mW
R _{0 JA}	Thermal Resistance rrom Junction to Ambient	200	°C /W
T _J ,T _{stg}	Operation Junction and Storage Temperature Range	-55~+150	°C



$T_a \text{=} 25\, ^{\circ}\text{C}\,$ unless otherwise specified

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =100uA, I _E =0	40			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =0.1mA, I _B =0	25			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =100μA, I _C =0	5			V
Collector cut-off current	I _{CBO}	V _{CB} =40V, I _E =0			0.1	μA
Emitter cut-off current	I _{CEO}	V _{CE} =20V, I _E =0			0.1	μA
Emitter cut-off current	I _{EBO}	V _{EB} =5V, I _C =0			0.1	μA
DC current gain	h _{FE(1)}	V _{CE} =1V, I _C =100mA	85		400	
Do carrent gam	h _{FE(2)}	V _{CE} =1V, I _C =800mA	40			
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =800mA, I _B =80mA			0.5	V
Base-emitter saturation voltage	V _{BE(sat)}	I _C =800mA, I _B =80mA			1.2	V
Base-emitter voltage	V _{BE}	V _{CE} =1V, I _C =10mA			1	V
Transition frequency	f _T	V _{CE} =10V, I _C =50mA,f=30MH _Z	100			MHz

CLASSIFICATION OF $h_{\text{FE}(1)}$

Rank	В	С	D	D3
Range	85-160	120-200	160-300	300-400



