

JIANGSU CHANGJIANG ELECTRONICS TECHNOLOGY CO., LTD

SOT-23 Plastic-Encapsulate Transistors

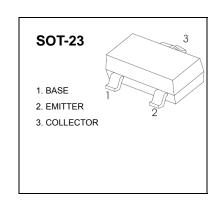
\$\$8050 TRANSISTOR (NPN)

FEATURES

Complimentary to SS8550

MARKING: Y1

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	
Pc	Collector Power Dissipation	0.3	W	
T _j	Junction Temperature	150	℃	
T _{stg}	Storage Temperature	-55-150	℃	

ELECTRICAL CHARACTERISTICS (Ta=25℃ unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C = 100μA, I _E =0	40			٧
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
Collector cut-off current	I _{CEO}	V _{CB} =20V, I _E =0			0.1	μΑ
Emitter cut-off current	I _{EBO}	V _{EB} = 5V, I _C =0			0.1	μA
DC ourrent gain	h _{FE(1)}	V _{CE} =1V, I _C = 100mA	120		400	
DC current gain	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
Transition frequency	f _T	V _{CE} =10V, I _C = 50mA f=30MHz	100			MHz

CLASSIFICATION OF hfe(1)

Rank	L	Н	J
Range	120-200	200-350	300-400