

JIANGSU CHANGJIANG ELECTRONICS TECHNOLOGY CO.,LTD

本资料由东莞长电代理: FUYAT CO., LTD提供0769-85388861

SOT-23 Plastic-Encapsulate Transistors

\$8050 TRANSISTOR (NPN)

FEATURES

z Complimentary to S8550

z Collector Current: I_C=0.5A

MARKING: J3Y

MAXIMUM RATINGS (T_A=25℃ unless otherwise noted)

SOT-23	
1. BASE 2. EMITTER 3. COLLECTOR	3
5 -	3

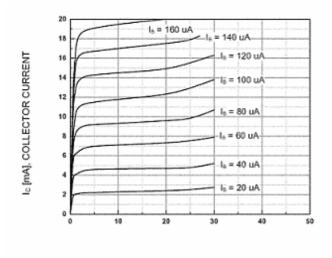
Symbol	Parameter	Value	Units
V _{CBO}	Collector-Base Voltage	40	V
V _{CEO}	Collector-Emitter Voltage	25	V
V _{EBO}	Emitter-Base Voltage	5	V
Ic	Collector Current -Continuous	0.5	A
Pc	Collector Dissipation	0.3	W
Tj	Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature	-55-150	℃

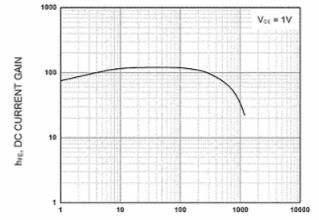
ELECTRICAL CHARACTERISTICS (Tamb=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	V _{(BR)CBO}	I _C = 100μΑ, I _E =0	40			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =1mA, I _B =0	25			V
Emitter-base breakdown voltage	V _{(BR)EBO}	l _E =100μA, l _C =0	5			V
Collector cut-off current	I _{CBO}	V _{CB} =40 V , I _E =0			0.1	μА
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	μА
DC current gain	H _{FE(1)}	V _{CE} =1V, I _C = 50mA	120		350	
	H _{FE(2)}	V _{CE} =1V, I _C = 500mA	50			
Collector-emitter saturation voltage	V _{CE} (sat)	I _C =500 mA, I _B = 50mA			0.6	V
Base-emitter saturation voltage	V _{BE} (sat)	I _C =500 mA, I _B = 50mA			1.2	V
Transition frequency	f⊤	V _{CE} =6V, I _C = 20mA f=30MHz	150			MHz

CLASSIFICATION OF h_{FE(1)}

Rank	L	Н
Range	120-200	200-350





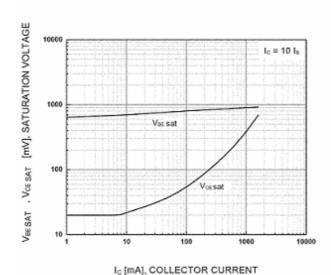
 $V_{\text{CE}} \text{ [V], COLLECTOR-EMITTER VOLTAGE}$

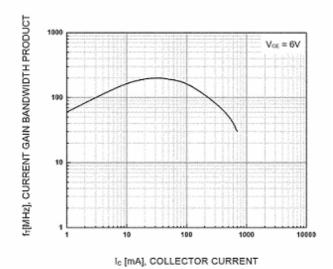
(S [v], OOLLEOTON-LIMITTEN VOLINGE

Ic [mA], COLLECTOR CURRENT

Static Characteristic

DC current Gain





Base-Emitter Saturation Voltage Collector-Emitter Saturation Voltage

Current Gain Bandwidth Product