Changjiang

JIANGSU CHANGJIANG ELECTRONICS TECHNOLOGY CO.,LTD

SOT-23 Plastic-Encapsulate Transistors

S8050LT1 TRANSISTOR (NPN)

FEATURES

Power dissipation

P_{CM} : 0.3 W (Tamb=25℃)

Collector current

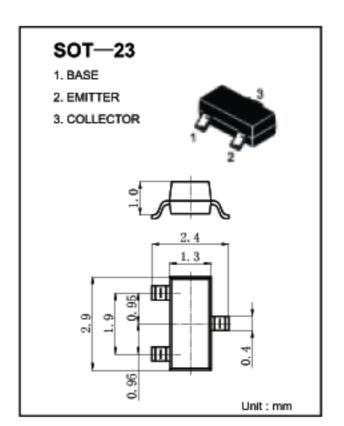
I_{CM} : 0.5 A

Collector-base voltage

V_{(BR)CBO}: 40 V

Operating and storage junction temperature range

 T_J , T_{stg} : -55 $^{\circ}$ C to +150 $^{\circ}$ C



ELECTRICAL CHARACTERISTICS (Tamb=25℃ unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNI T
Collector-base breakdown voltage	breakdown $V_{(BR)CB}$ $I_{C}=$ 100 μ A , $I_{E}=0$		40			V
Collector-emitter breakdown voltage	V _{(BR)CE}	Ic= 0.1mA, I _B =0	25			٧
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =100 μ A, I _C =0				٧
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	μ А
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	
DC Current gain	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	٧
Base-emitter voltage	V_{BEF}	I _E = 100mA			1.4	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

DEVICE MARKING: S8050LT1=J3Y