FEATURES

Collector Current: I_C=0.5A

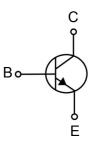
• Power Dissipation of 300mw



SOT-23

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
S8050	SOT-23	J3Y	3000



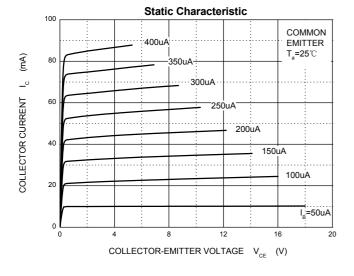
MAXIMUM RATINGS (Ta=25 unless otherwise noted)

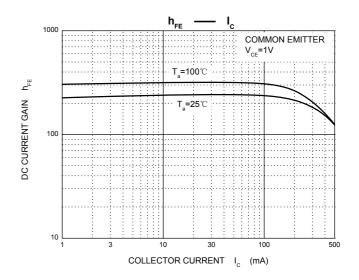
Parameter	Symbol	Limit	Unit
Collector-Base Voltage	V _{CBO}	40	V
Collector-Emitter Voltage	V _{CEO}	25	V
Emitter-Base Voltage	V _{EBO}	5	V
Collector Current	I _c	500	mA
Collector Power Dissipation	P _c	300	mW
Thermal Resistance From Junction To Ambient	R _{OJA}	417	°CW
Junction Temperature	T _j	150	℃
Storage Temperature	T _{stg}	-55∼+150	℃

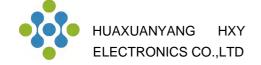
ELECTRICAL CHARACTERISTICS (Ta=25 unless otherwise specified)

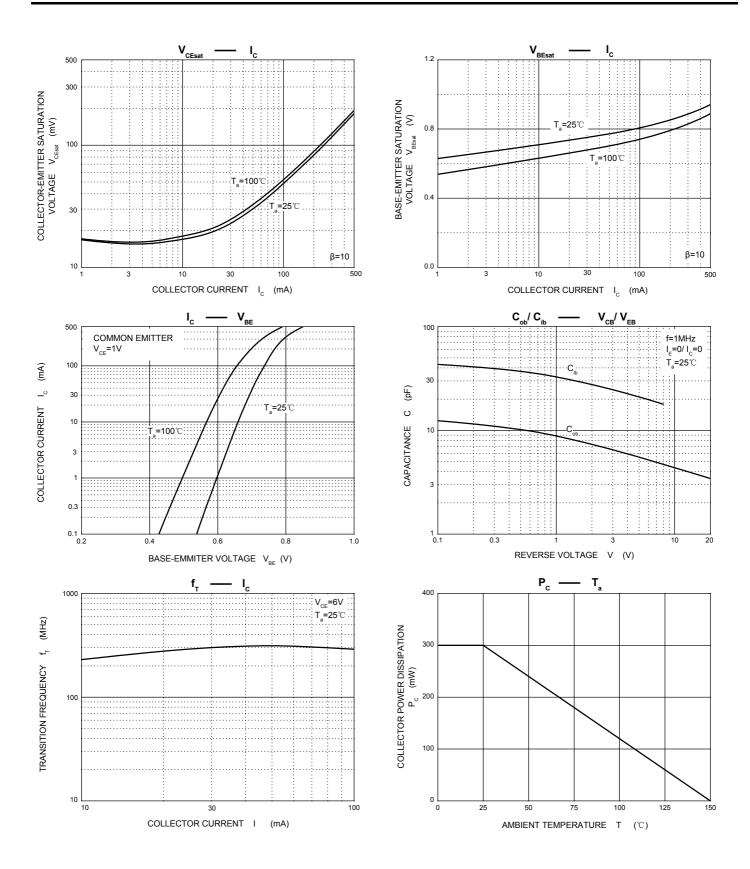
Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C = 100μA, I _E =0	40			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =1mA, I _B =0	25			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =100μA, I _C =0	5			V
Collector cut-off current	Ісво	V _{CB} =40 V , I _E =0			0.1	μΑ
Collector cut-off current	I _{CEO}	V _{CB} =20V , I _E =0			0.1	μA
Emitter cut-off current	I _{EBO}	V _{EB} = 5V , I _C =0			0.1	μΑ
DC current gain	h _{FE(1)}	V _{CE} =1V, I _C = 50mA	120		400	
DC current gain	h _{FE(2)}	V _{CE} =1V, I _C = 500mA	50			
Collector-emitter saturation voltage	V _{CE} (sat)	Ic=500 mA, I _B = 50mA			0.6	٧
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

Typical Characteristics



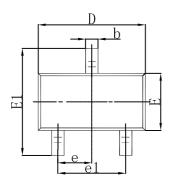


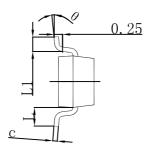


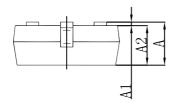




SOT-23 Package Outline Dimensions

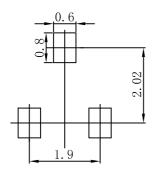






Symbol	Dimensions In Millimeters		Dimensions In Inches			
	Min	Max	Min	Max		
Α	0.900	1.150	0.035	0.045		
A1	0.000	0.100	0.000	0.004		
A2	0.900	1.050	0.035	0.041		
b	0.300	0.500	0.012	0.020		
С	0.080	0.150	0.003	0.006		
D	2.800	3.000	0.110	0.118		
E	1.200	1.400	0.047	0.055		
E1	2.250	2.550	0.089	0.100		
е	0.950	0.950 TYP		0.037 TYP		
e1	1.800	2.000	0.071	0.079		
L	0.550 REF		0.022 REF			
L1	0.300	0.500	0.012	0.020		
θ	0°	8°	0°	8°		

SOT-23 Suggested Pad Layout



Note:

- 1.Controlling dimension:in millimeters.
- 2.General tolerance:± 0.05mm.
 3.The pad layout is for reference purposes only.

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>>HXY MOSFET(华轩阳电子)