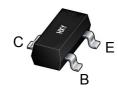


FEATURES

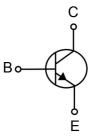
• Power switching applications



SOT-23

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
13001	SOT-23	8D	3000



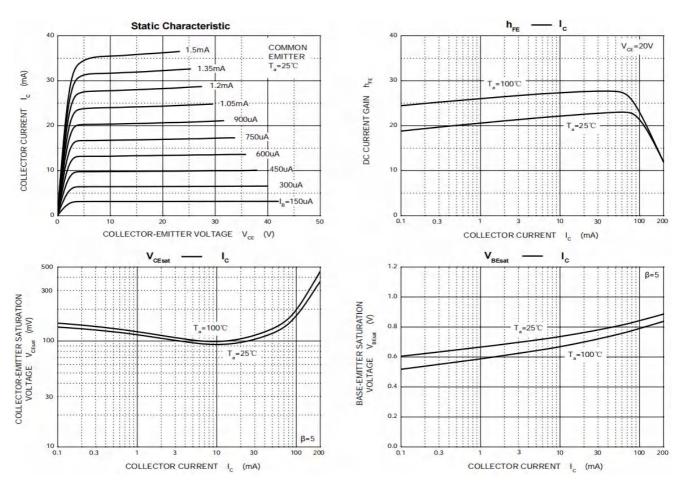
MAXIMUM RATINGS (Ta=25 unless otherwise noted)

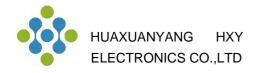
Parameter	Symbol	Limit	Unit
Collector-Base Voltage	V _{CBO}	600	V
Collector-Emitter Voltage	V _{CEO}	420	V
Emitter-Base Voltage	V _{EBO}	7	V
Collector Current	Ι _c	200	mA
Collector Power Dissipation	Pc	300	mW
Thermal Resistance From Junction To Ambient	R _{OJA}	400	°C/W
Junction Temperature	T _j	150	°C
Storage Temperature	T _{stg}	-55~+150	°C

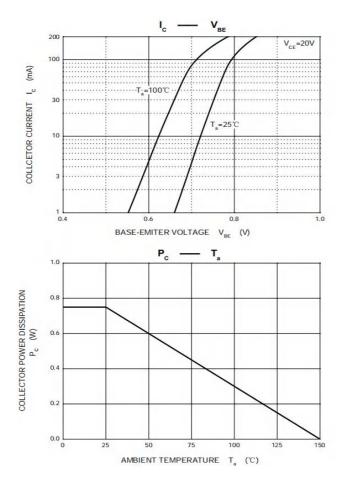
Symbol	Parameter	Test conditions	Min	Тур	Max	Unit
V _{(BR)CBO}	Collector-base breakdown voltage	I _C =100μΑ, I _E =0	600			V
V _{(BR)CEO}	Collector-emitter breakdown voltage	I _C =1mA, I _B =0	420			V
V _{(BR)EBO}	Emitter-base breakdown voltage	I _E =100μΑ, I _C =0	_E =100μA, I _C =0 7			V
I _{CBO}	Collector cut-off current	V _{CB} =600V, I _E =0			100	μ A
I _{CEO}	Collector cut-off current	V _{CE} =400V, I _E =0			200	μ A
I _{EBO}	Emitter cut-off current	V _{EB} =7V, I _C =0			100	μ A
h _{FE} (1)	DC current gain(1)	V _{CE} =20V, I _C =20mA	18		30	
h _{FE} (2)	DC current gain(2)	V _{CE} =10V, I _C =0.25mA	5			
V _{CE(sat)} 1	Collector-emitter saturation voltage				0.5	V
V _{BE(sat)} 1	Base-emitter saturation voltage	I _C =50mA, I _B =10mA			1.2	V
f⊤	Transition frequency	V _{CE} =20V, I _C =20mA, f=1MHz	8			MHz
tf	Fall time	Ic=50mA, Vcc=45V,			0.3	μS
ts	Storage time	Iв1 =-I в2 =5mA ,			1.5	μS

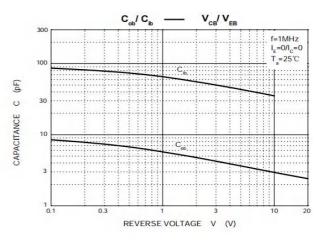
ELECTRICAL CHARACTERISTICS (Ta=25 unless otherwise specified)

Typical Characteristics



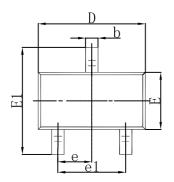


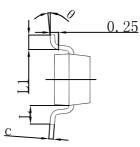


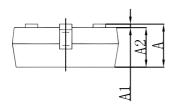




SOT-23 Package Outline Dimensions

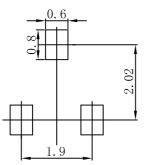






Symbol	Dimensions In Millimeters		Dimensions In Inches		
	Min	Max	Min	Max	
Α	0.900	1.150	0.035	0.045	
A1	0.000	0.100	0.000	0.004	
A2	0.900	1.050	0.035	0.041	
b	0.300	0.500	0.012	0.020	
С	0.080	0.150	0.003	0.006	
D	2.800	3.000	0.110	0.118	
Е	1.200	1.400	0.047	0.055	
E1	2.250	2.550	0.089	0.100	
e	0.950 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)