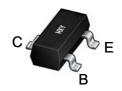


Features

- Collector Current: I_C=0.1A
- Power Dissipation of 200mw



Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
S9015	SOT-23	M6	3000





Maxmim Ratings (Ta=25 unless otherwise noted)

Parameter	Symbol	Limit	Unit
Collector-Base Voltage	V _{CBO}	-50	V
Collector-Emitter Voltage	V _{CEO}	-45	V
Emitter-Base Voltage	V _{EBO}	-5	V
Collector Current	I _c	-100	mA
Collector Power Dissipation	P _c	200	mW
Thermal Resistance From Junction To Ambient	R _{OJA}	625	°C/W
Junction Temperature	T _j	150	℃
Storage Temperature	T _{stg}	-55∼+150	℃

CLASSIFICATION OF h_{FE}

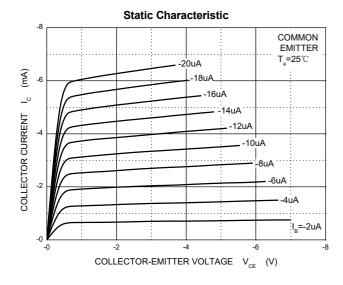
Rank	L	Н		
Range	200-450	400-1000		

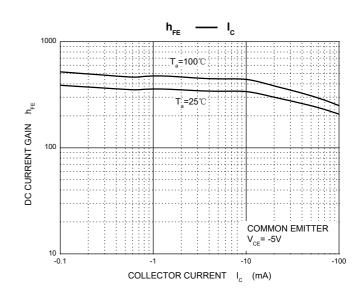


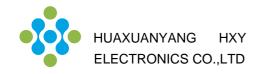
Electrcal Charcteristics (T_a=25 unless otherwise specified)

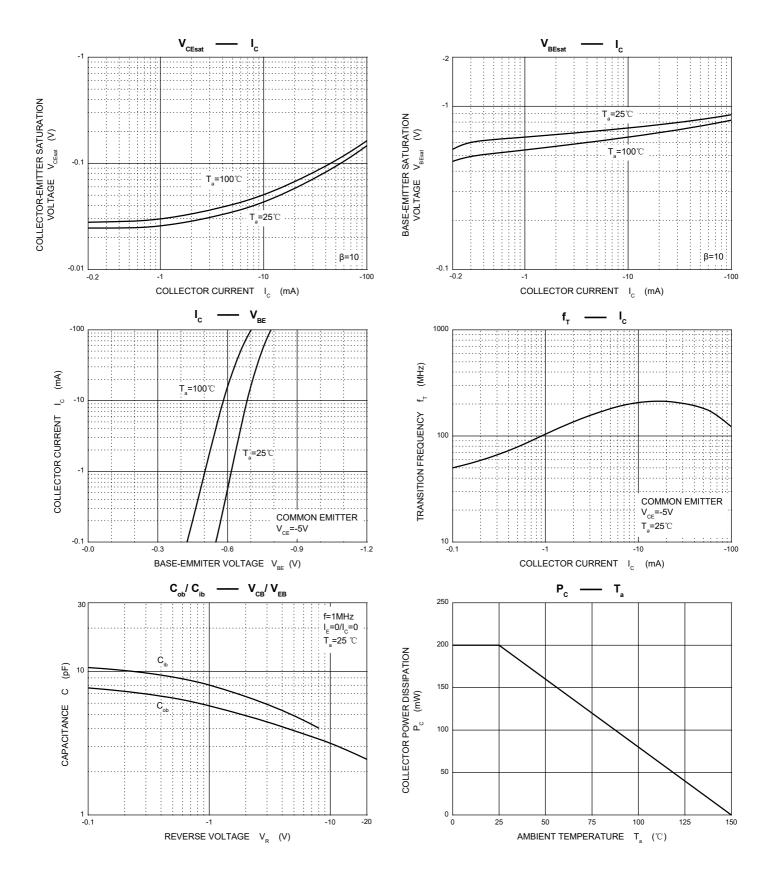
Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C = -100μA, I _E =0	-50			\
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C = -0.1mA, I _B =0	-45			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =-100μΑ, I _C =0	-5			V
Collector cut-off current	I _{CBO}	V _{CB} =-50 V, I _E =0			-0.1	μΑ
Emitter cut-off current	I _{EBO}	V _{EB} = -5V, I _C =0			-0.1	μA
DC current gain	h _{FE}	V _{CE} =-5V, I _C = -1mA	200		1000	
Collector-emitter saturation voltage	V _{CE} (sat)	I _C =-100mA, I _B = -10mA			-0.3	V
Base-emitter saturation voltage	V _{BE} (sat)	I _C =-100mA, I _B =-10mA			-1	V
Transition frequency	f⊤	V _{CE} =-5V, I _C = -10mA f=30MHz	150			MHz

Typical Characteristics



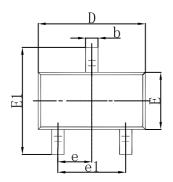


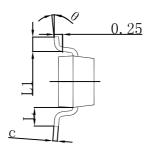


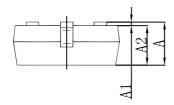




SOT-23 Package Outline Dimensions

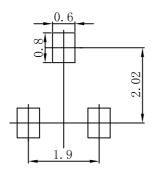






Symbol	Dimensions In Millimeters		Dimensions In Inches		
	Min	Max	Min	Max	
Α	0.900	1.150	0.035	0.045	
A1	0.000	0.100	0.000	0.004	
A2	0.900	1.050	0.035	0.041	
b	0.300	0.500	0.012	0.020	
С	0.080	0.150	0.003	0.006	
D	2.800	3.000	0.110	0.118	
E	1.200	1.400	0.047	0.055	
E1	2.250	2.550	0.089	0.100	
е	0.950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