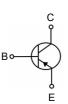


Features

- Collector Current: I_C=1.5A
- Power Dissipation of 300mw



SOT-23



Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)		
SS8550	SOT-23	Y2	3000		

Maxmim 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	-1.5	А
Collector Power Dissipation	P _C	300	mW
Thermal Resistance From Junction To Ambient	R _{OJA}	417	°C/W
Junction Temperature	T _j	150	℃
Storage Temperature	T _{stg}	- 55∼+150	℃

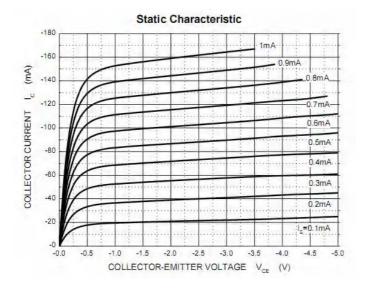
Classification Of $h_{FE(1)}$

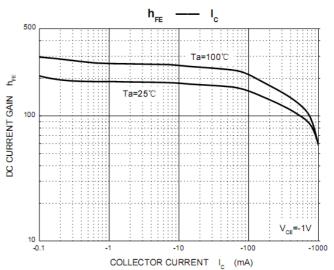
Rank	L	Н	J
Range	120–200	200–350	300–400
Marking			

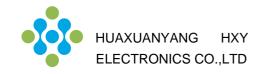
Electrcal Charcteristics(Ta=25 unlesotherwises pecified)

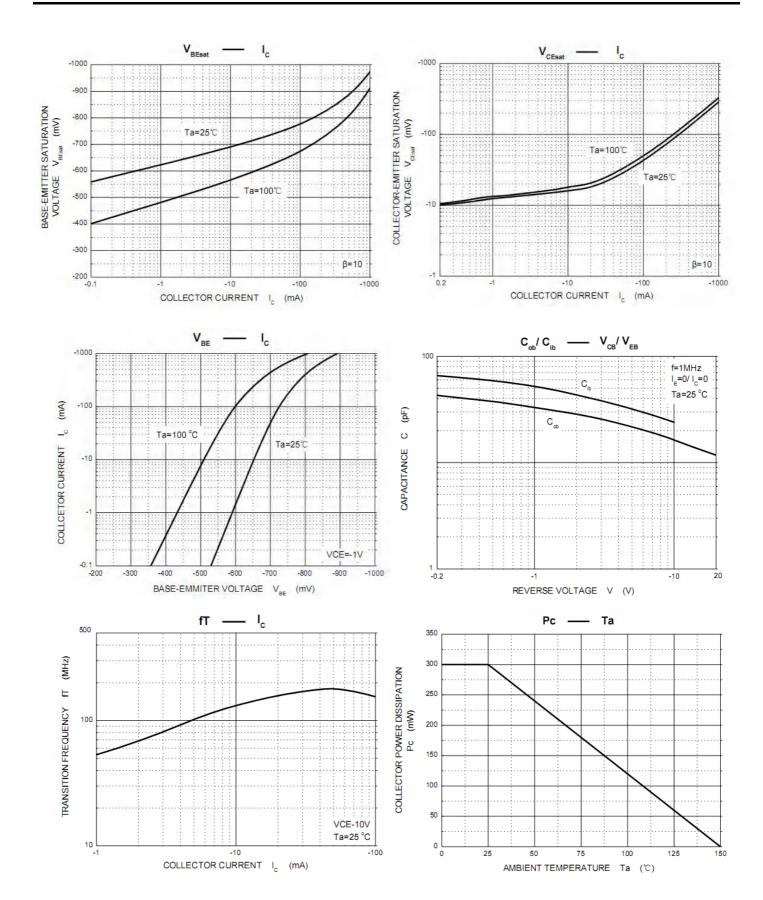
Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =-100μA, I _E =0	-40			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =-0.1mA, I _B =0	-25			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =-100μA, I _C =0	-5			V
Collector cut-off current	I _{CBO}	V _{CB} =-40V, I _E =0			-100	nA
Collector cut-off current	I _{CEO}	V _{CE} =-20V, I _B =0			-100	nA
Emitter cut-off current	I _{EBO}	V _{EB} =-5V, I _C =0			-100	nA
DC current gain	h _{FE(1)}	V _{CE} =-1V, I _C =-100mA	120		400	
DC current gain	h _{FE(2)}	V _{CE} =-1V, I _C =-800mA	40			
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =-800mA, I _B =-80mA			-0.5	V
Base-emitter saturation voltage	V _{BE(sat)}	I _C =-800mA, I _B =-80mA			-1.2	V
Base-emitter voltage	V _{BE}	V _{CE} =-1V, I _C =-10mA			-1	V
Transition frequency	f⊤	V _{CE} =-10V,I _C =-50mA , f=30MHz	100			MHz
Collector output capacitance	Cob	V _{CB} =-10V, I _E =0, f=1MHz			20	pF

Typical Characteristics

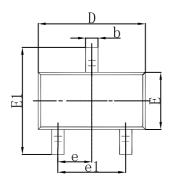


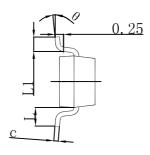


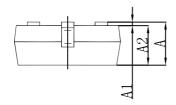




SOT-23 Package Outline Dimensions

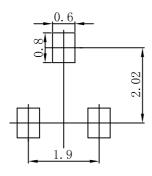






Cumphel	Dimensions In Millimeters		Dimensions In Inches		
Symbol	Min	Max	Min	Max	
Α	0.900	1.150	0.035	0.045	
A1	0.000	0.100	0.000	0.004	
A2	0.900	1.050	0.035	0.041	
b	0.300	0.500	0.012	0.020	
С	0.080	0.150	0.003	0.006	
D	2.800	3.000	0.110	0.118	
E	1.200	1.400	0.047	0.055	
E1	2.250	2.550	0.089	0.100	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