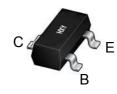


FEATURES

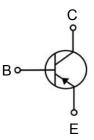
- Complimentary to S8550
- Collector Current: I_c=0.5A
- Power Dissipation of 300mw





Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
S8550	SOT-23	2TY	3000



MAXIMUM RATINGS (Ta=25 unless otherwise noted)

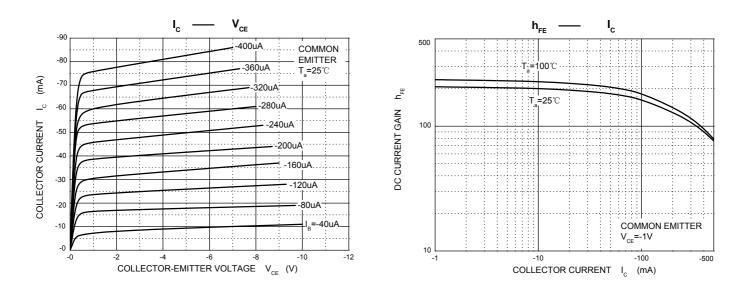
Parameter	Symbol	Limit	Unit	
Collector-Base Voltage	V _{CBO}	-40	V	
Collector-Emitter Voltage	V _{CEO}	-25	V	
Emitter-Base Voltage	V _{EBO}	-5	V	
Collector Current	Ι _c	-500	mA	
Collector Power Dissipation	Pc	300	mW	
Thermal Resistance From Junction To Ambient	R _{oja}	421	°C/W	
Junction Temperature	T _j	150	°C	
Storage Temperature	T _{stg}	-55~+150	°C	

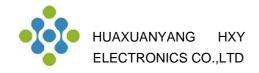


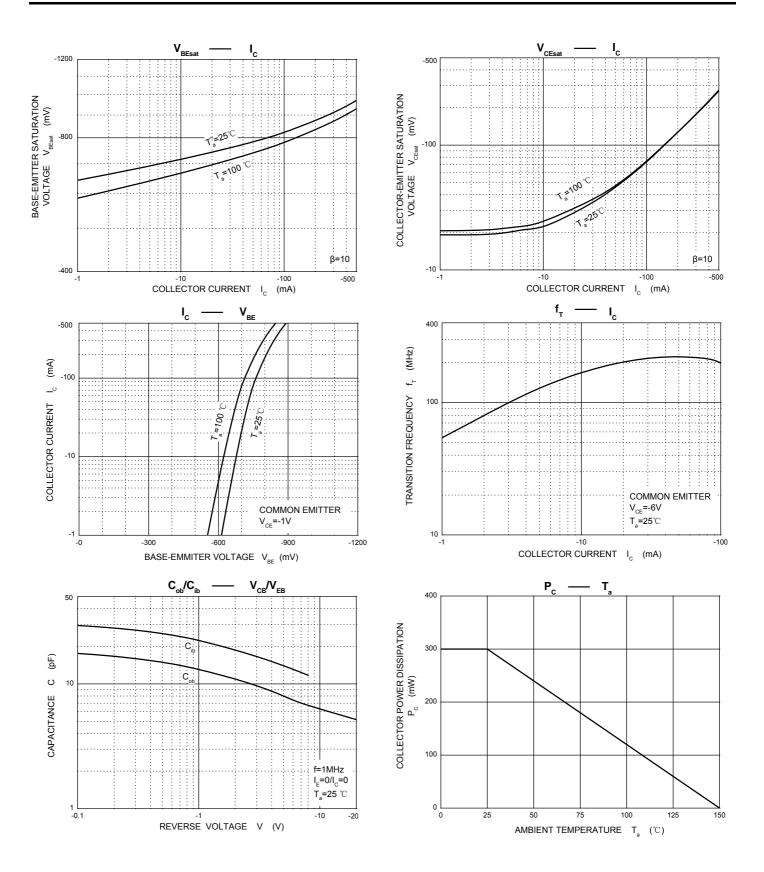
ELECTRICAL CHARACTERISTICS (Ta=25 unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Мах	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	Ι _C = -100μΑ, Ι _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 = -100μΑ, I _C =0	-5		V
Collector cut-off current	I _{CBO}	V _{CB} = -40V, I _E =0		-0.1	μA
Collector cut-off current	I _{CEO}	V _{CE} = -20V, I _B =0		-0.1	μA
Emitter cut-off current	I _{EBO}	V _{EB} = -3V, I _C =0		-0.1	μA
	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)	I _C =-500mA, I _B = -50mA		-0.6	V
Base-emitter saturation voltage	V _{BE} (sat)	I _C =-500mA, I _B = -50mA		-1.2	V
Transition frequency	f⊤	V _{CE} = -6V, I _C = -20mA f=30MHz	150		MHz

Typical Characteristics

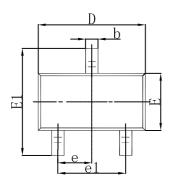


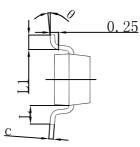


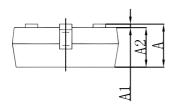




SOT-23 Package Outline Dimensions

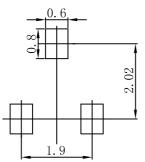






Symbol	Dimensions In Millimeters		Dimensions In Inches		
	Min	Max	Min	Max	
А	0.900	1.150	0.035	0.045	
A1	0.000	0.100	0.000	0.004	
A2	0.900	1.050	0.035	0.041	
b	0.300	0.500	0.012	0.020	
С	0.080	0.150	0.003	0.006	
D	2.800	3.000	0.110	0.118	
Е	1.200	1.400	0.047	0.055	
E1	2.250	2.550	0.089	0.100	
е	0.950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