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SS8550 TRANSISTOR (PNP)

SOT-23 Plastic-Encapsulate Transistors

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客户确认：

公司签章：

部门

工程部

品保部

采购部

签名

日期



SOT-23 Plastic-Encapsulate Transistors

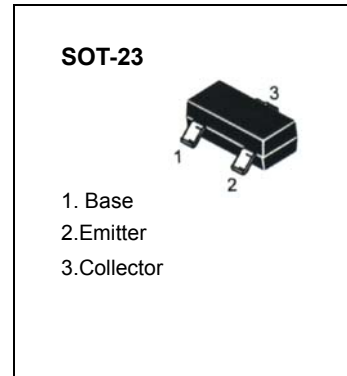
SS8 550 TRANSISTOR (PNP)

FEATURES

Complimentary to SS8050

MARKING: Y2

MAXIMUM RATINGS (T_A=25°C unless otherwise noted)



SOT-23

- 1. Base
- 2. Emitter
- 3. Collector

Symbol Para	meter	Value	Units
V _{CB0}	Collector-Base Voltage	-40	V
V _{CEO}	Collector-Emitter Voltage	-25	V
V _{EBO}	Emitter-Base Voltage	-5	V
I _C	Collector Current -Continuous	-1.5	A
P _C	Collector Power Dissipation	0.6	W
T _j	Junction Temperature	150	°C
T _{stg}	Storage Temperature	-55-150	°C

ELECTRICAL CHARACTERISTICS (T_{amb}=25°C unless otherwise specified)

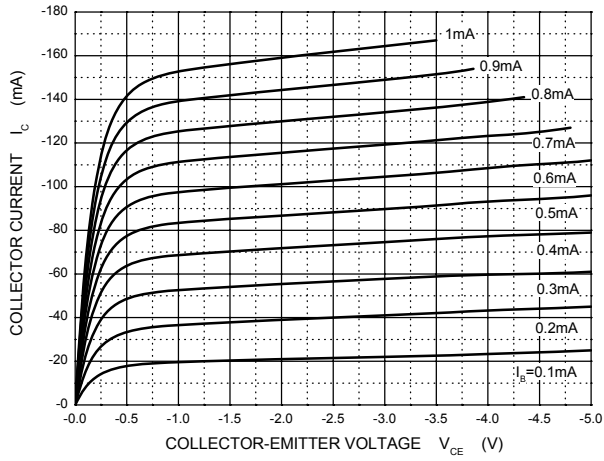
Parameter	Symbol	Test conditions	MIN	MAX	UNIT
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =-100μA, I _E =0	-40		V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =-0.1mA, I _B =0	-25		V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =-100μA, I _C =0	-5		V
Collector cut-off current	I _{CBO}	V _{CB} =-40V, I _E =0		-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} =-5V, I _C =0		-0.1	μA
DC current gain	h _{FE(1)}	V _{CE} =-1V, I _C =-100mA	120	400	
	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 on voltage	V _{BE(on)}	I _C =-1V, V _{CE} =-10mA		-1	V
Base-emitter positive favor voltage	V _{BEF}	I _B =-1A		-1.55	V
Transition frequency	f _T	V _{CE} = -10V, I _C = -50mA f=30MHz	100		MHz
output capacitance	C _{ob}	(V _{CB} =-10V, I _E =0, f=1MHz)		20	pF

CLASSIFICATION OF h_{FE(1)}

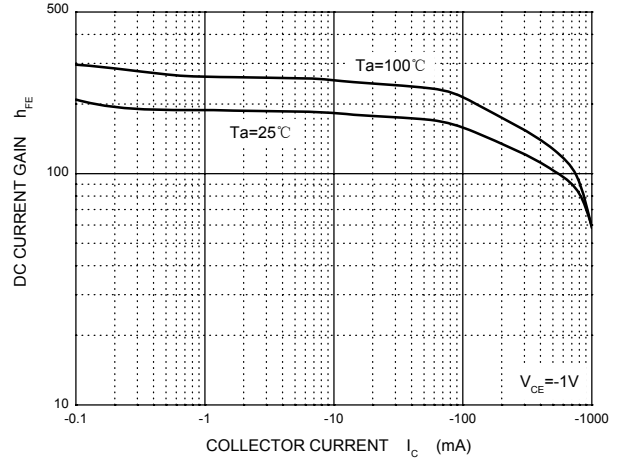
Rank	L	H	J
Range	120-200	200-350	300-400

Typical Characteristics

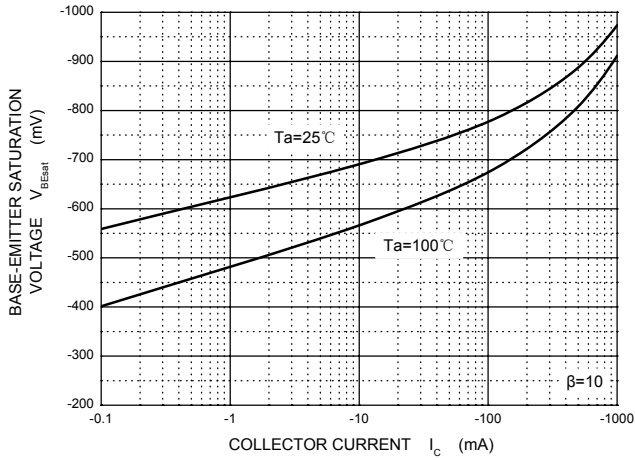
Static Characteristic



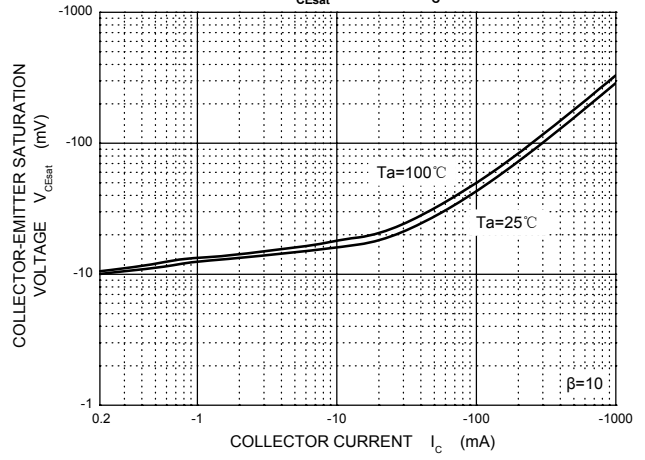
$h_{FE} - I_c$



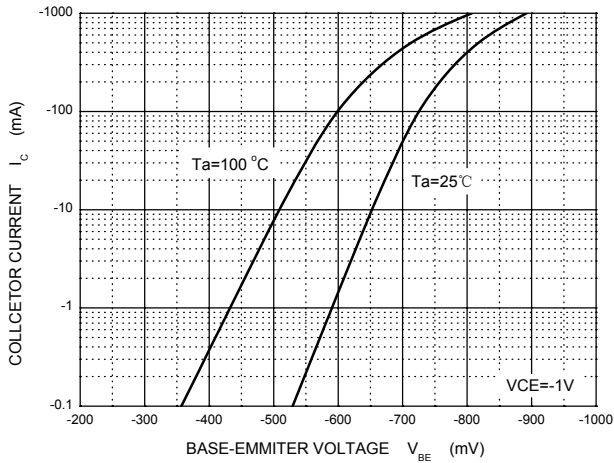
$V_{BEsat} - I_c$



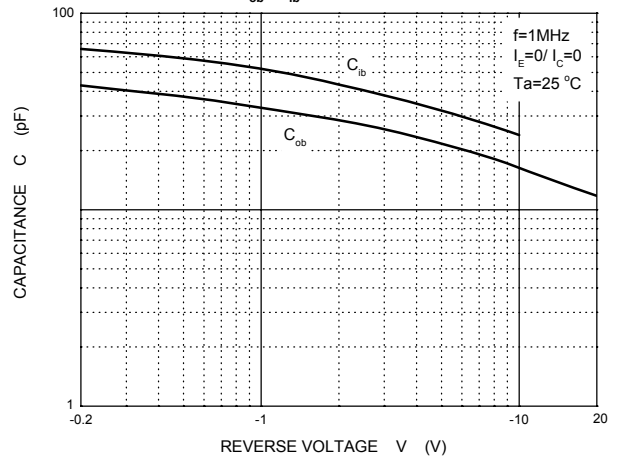
$V_{CEsat} - I_c$



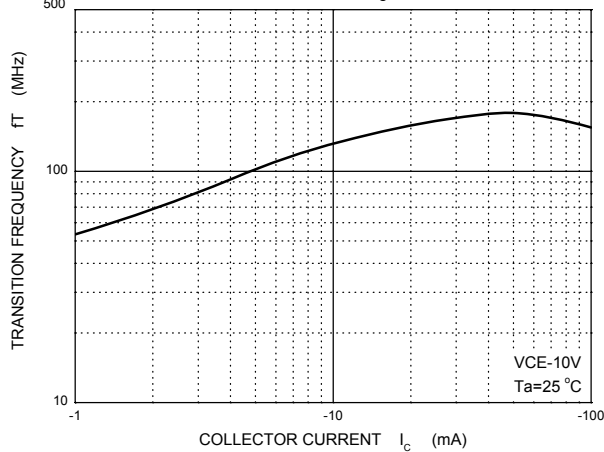
$V_{BE} - I_c$



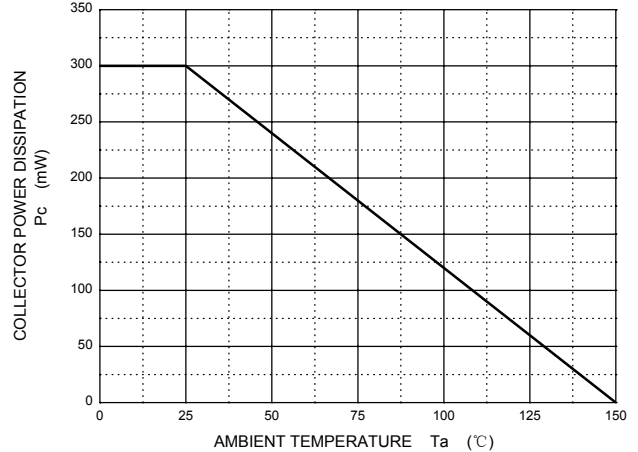
$C_{ob}/C_{ib} - V_{CB}/V_{EB}$



$f_T - I_c$



$P_c - T_a$

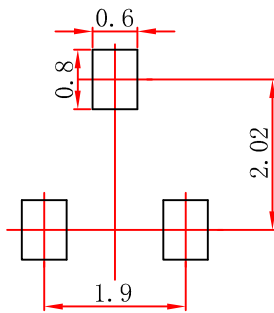


SOT-23 Package Outline Dimensions



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	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
c	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
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: $\pm 0.05\text{mm}$.
3. The pad layout is for reference purposes only.