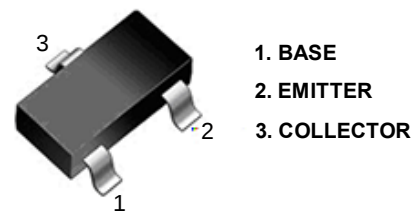


SOT-23 Plastic-Encapsulate Transistors

S8550 TRANSISTOR (PNP)

• Features

- Complimentary to S8050



SOT - 23

• MAXIMUM RATINGS (T_C=25°C)

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	-0.5	A
Collector Power Dissipation	P _C	300	mW
Thermal Resistance From Junction To Ambient	R _{ΘJA}	417	°C/W
Operation Junction and Storage Temperature Range	T _J , T _{stg}	-55~+150	°C

• ELECTRICAL CHARACTERISTICS (T_a=25°C)

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 = -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} = -3V, I _C =0		-0.1	μA
DC current gain	h _{FE(1)}	V _{CE} = -1V, I _C = -50mA	120	400	
	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 _T	V _{CE} = -6V, I _C = -20mA f=30MHz	150		MHz

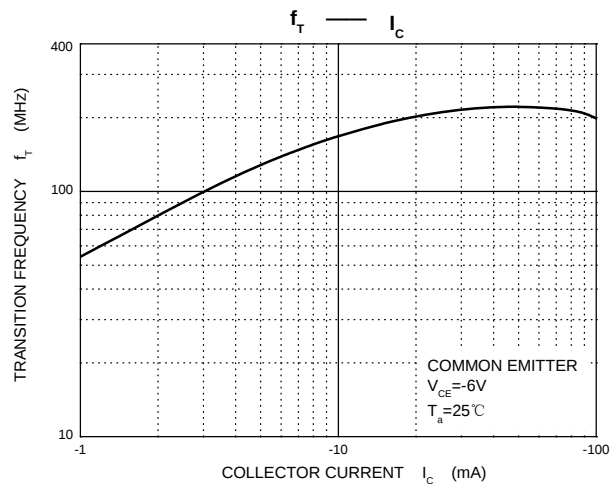
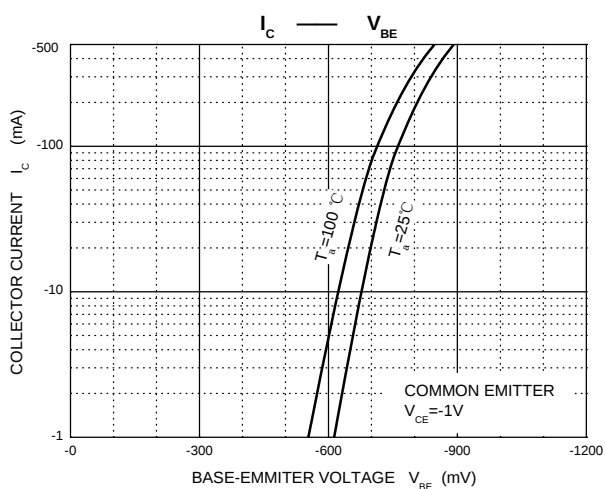
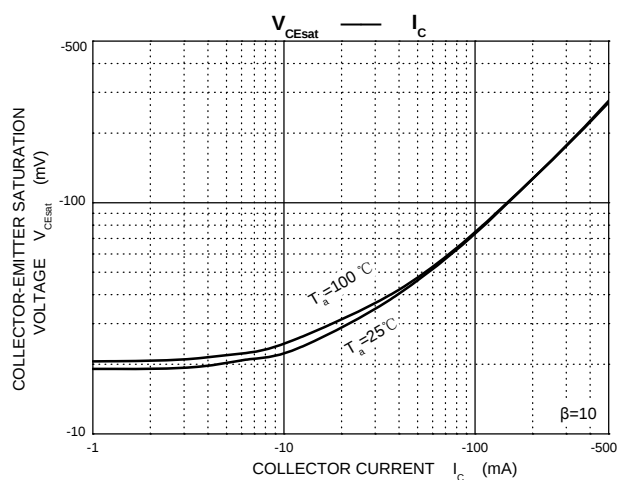
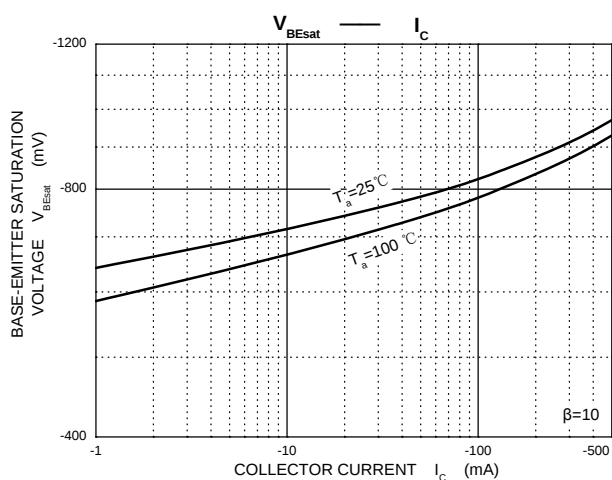
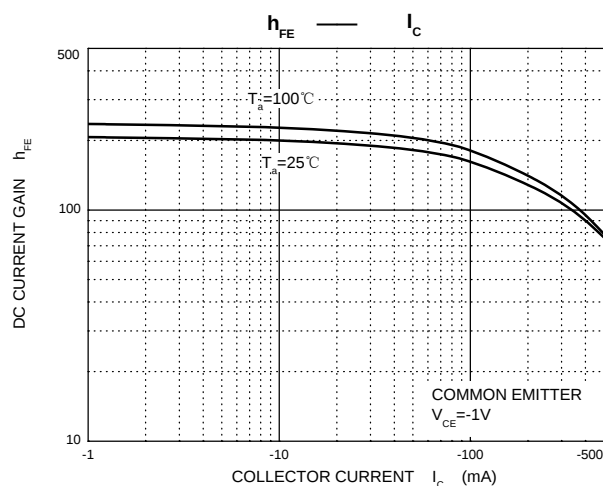
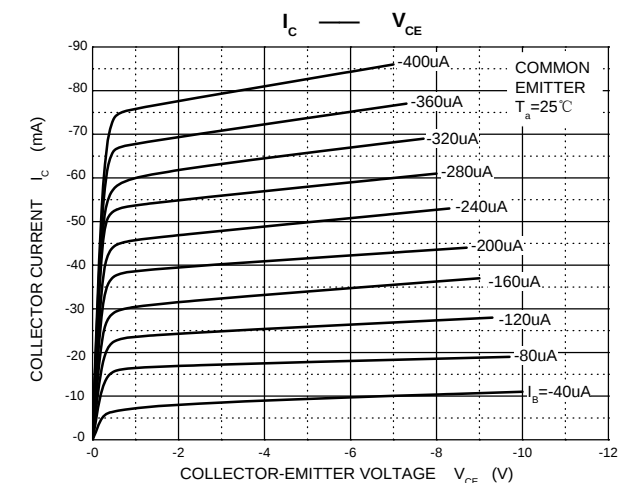
• CLASSIFICATION OF h_{FE(1)}

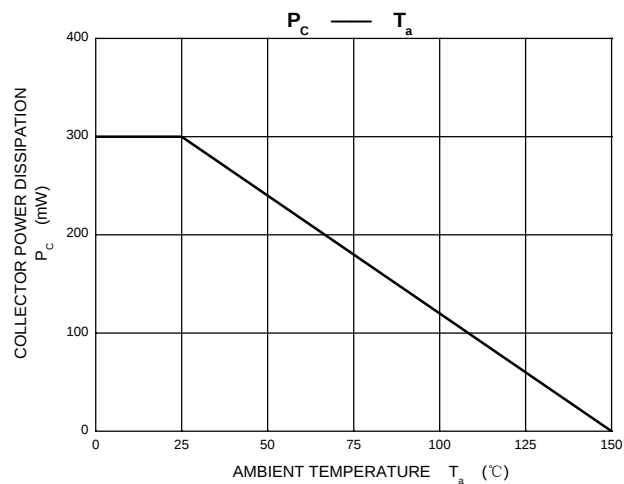
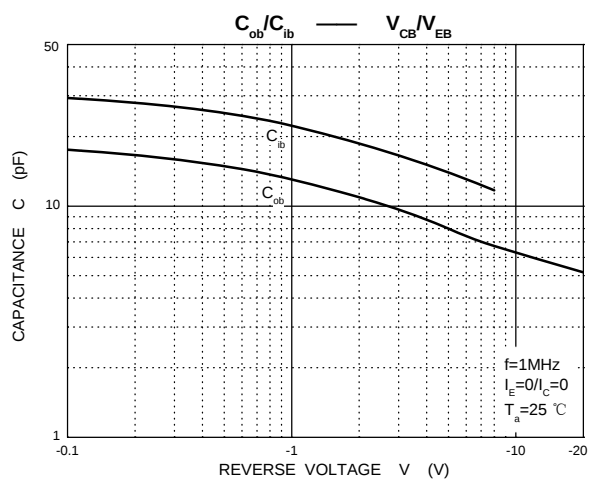
RANK	L	H	J
RANGE	120 - 200	200 - 350	300 - 400

• Ordering Information:

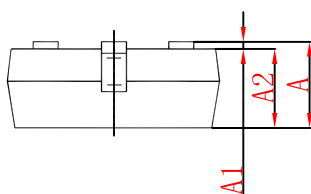
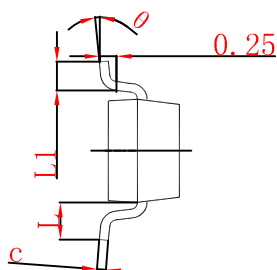
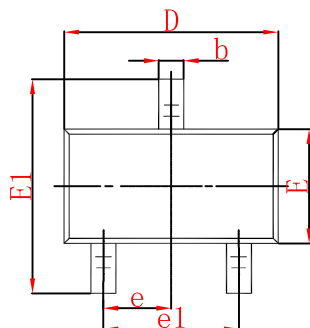
Part NO.	S8550
Marking	2TY
Packing Information	REEL TAPE
Basic ordering unit (pcs)	3000

• Typical Characteristics

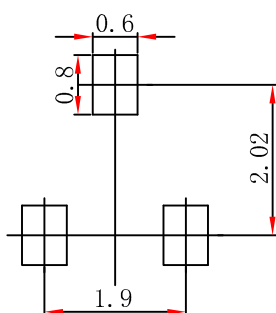




SOT-23 Package Outline Dimensions



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
theta	0°	8°	0°	8°



Note:

1. Controlling dimension: in millimeters.
2. General tolerance: $\pm 0.05\text{mm}$.
3. The pad layout is for reference purposes only.