

S8550

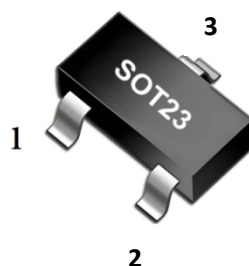
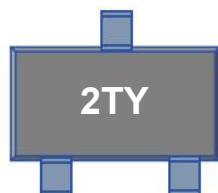
PNP SILICON TRANSISTOR

FEATURES

- *Complementary to S8050
- *Collector current: $I_C=0.5A$

MARKING

Type Code: Marking: 2TY



1. BASE
2. EMITTER
3. COLLECTOR

ABSOLUTE MAXIMUM RATINGS ($T_c=25^{\circ}C$, unless otherwise specified)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-base voltage	-40	V
V_{CEO}	Collector-emitter voltage	-25	V
V_{EBO}	Emitter-base voltage	-5	V
I_C	Collector current	-0.5	A
P_C	Collector Power Dissipation	0.3	W
T_j	Junction Temperature	150	$^{\circ}C$
T_{stg}	Storage Temperature	-60~150	$^{\circ}C$
$R_{\theta JA}$	Thermal Resistance From Junction To Ambient	417	$^{\circ}C/W$

Note: Absolute maximum ratings are those values beyond which the device could be permanently damaged.
Absolute maximum ratings are stress ratings only and functional device operation is not implied.

ELECTRICAL CHARACTERISTICS ($T_c=25^{\circ}C$, unless otherwise specified)

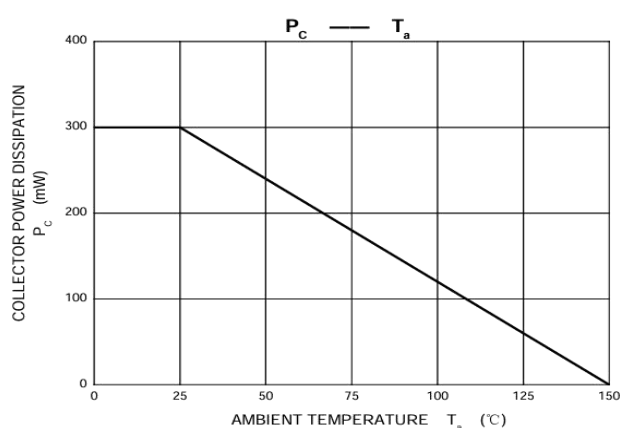
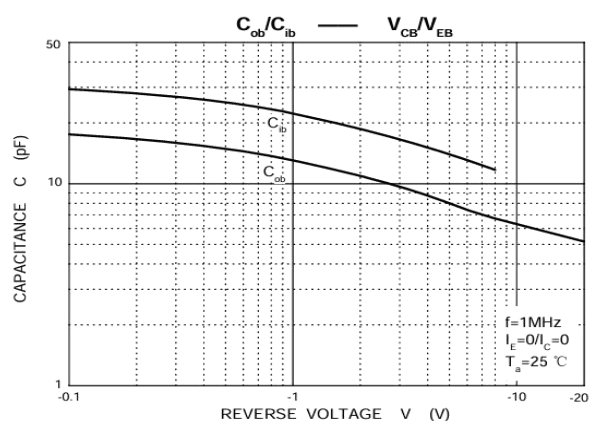
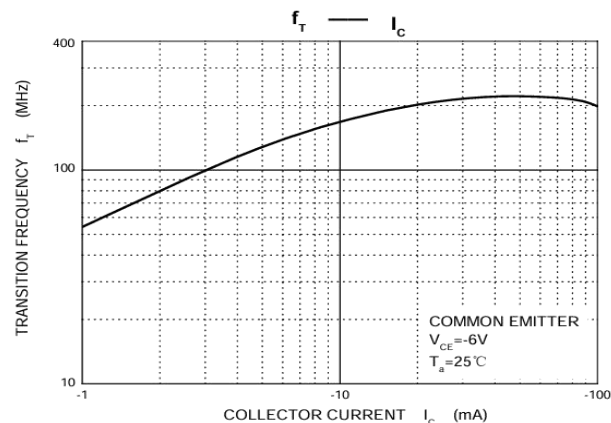
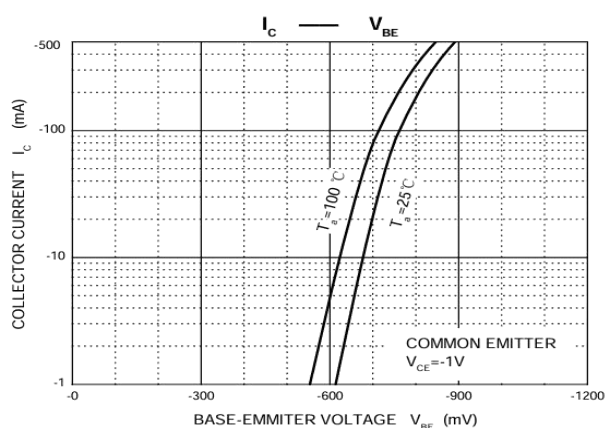
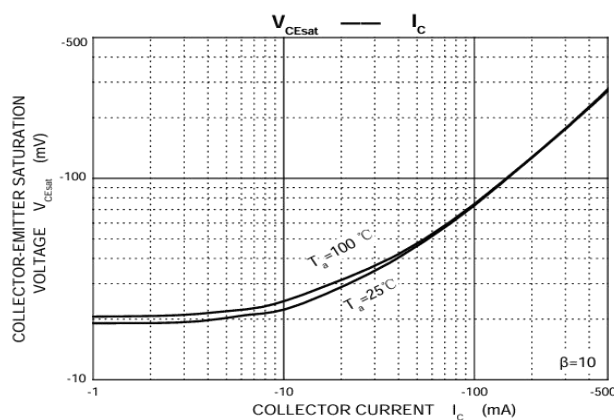
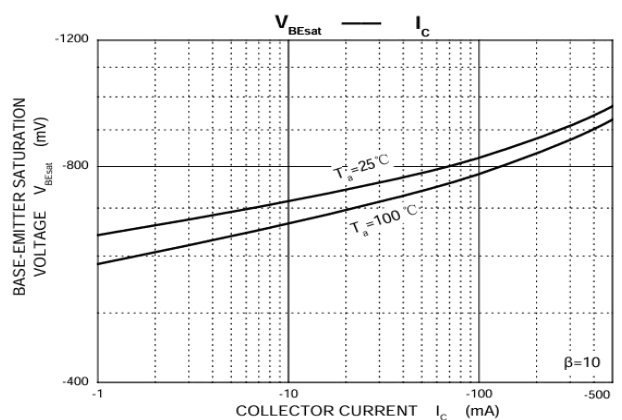
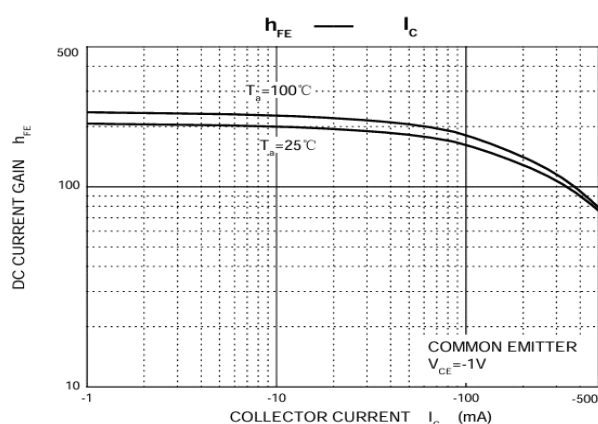
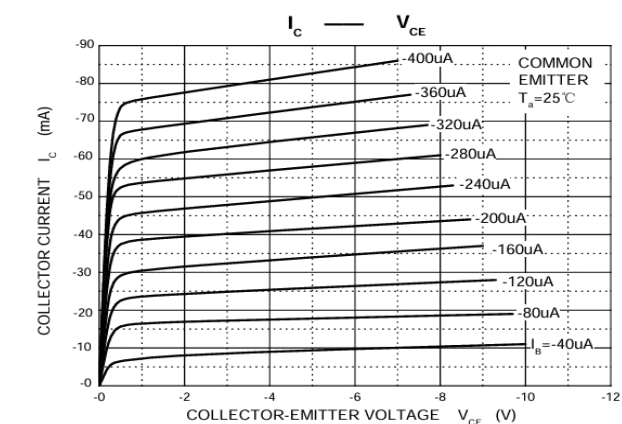
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	MAX	UNIT
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C=-100\mu A, I_E=0$	-40		V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C=-1mA, I_B=0$	-25		V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E=-100\mu A, I_C=0$	-5		V
Collector cutoff current	I_{CBO}	$V_{CB}=-40V, I_E=0$		-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 (CLASSIFICATION OF h_{FE1})	h_{FE1}	$V_{CE}=-1V, I_C=-50mA$	120	200	
			200	350	
			300	400	
	h_{FE2}	$V_{CE}=-1V, I_C=-500mA$	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



S8550

PNP SILICON TRANSISTOR

TYPICAL CHARACTERISTICS





PNP SILICON TRANSISTOR

Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	0.9	1.15	0.035	0.045
A1	0	0.1	0	0.004
A2	0.9	1.05	0.035	0.041
b	0.3	0.5	0.012	0.02
c	0.08	0.15	0.003	0.006
D	2.8	3	0.11	0.118
E	1.2	1.4	0.047	0.055
E1	2.25	2.55	0.089	0.1
e	0.950 TYP		0.037 TYP	
e1	1.8	2	0.071	0.079
L	0.550 REF		0.022 REF	
L1	0.25	0.45	0.01	0.02
θ	0°	8°	0°	8°

Note:

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

Top cover tape thickness
0.10 mm (0.004") max thick

Embossed carrier tape

Trailer Tape
50±2 Empty Pockets

Components

Leader Tape
100±2 Empty Pockets

Dimensions (mm):

- P0, P1, P, A, W, E, F, B, C, A-A
- Top view of section: $\phi 17.0 \pm 1$, $\phi 13.5 \pm 0.3$, 2.7 ± 0.2 , 12.3 ± 0.5 , 9.6 ± 0.8 , 9.6 ± 0.2 , 1.1 ± 0.2 , 0.9 ± 0.2 , 12.3 ± 0.5 , 9.6 ± 0.2 , 1.1 ± 0.2 , 0.9 ± 0.2

Dimensions are in millimeter										
PKG TYPE	A	B	C	d	E	F	Po	P	P1	W
SOT-23	3.17	2.77	1.22	Φ1.55	1.75	3.50	4.00	4.00	2.00	8.00
Reel Optiom	A	B	C	D	E	F	G	T1	T2	Q.TY PER REEL
7" Dia	Φ177.8	Φ54.5	Φ13.5	2.7	12.3	9.6	9.6	0.9	1.1	3000PCS