

SS8050

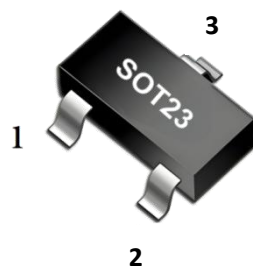
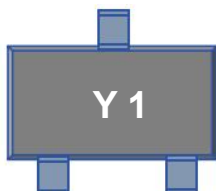
NPN SILICON TRANSISTOR

FEATURES

*Complementary to SS8550.

MARKING

Type Code: Marking: Y 1



1. BASE
2. EMITTER
3. COLLECTOR

ABSOLUTE MAXIMUM RATINGS (Tc=25°C, unless otherwise specified)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CB0}	Collector-base voltage	40	V
V _{CE0}	Collector-emitter voltage	25	V
V _{EB0}	Emitter-base voltage	5	V
I _C	Collector current	1.5	A
P _C	Collector Power Dissipation	0.3	W
T _j	Junction Temperature	150	°C
T _{stg}	Storage Temperature	-55~150	°C
R _{θJA}	Thermal Resistance From Junction To Ambient	417	°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 (Tc=25°C, unless otherwise specified)

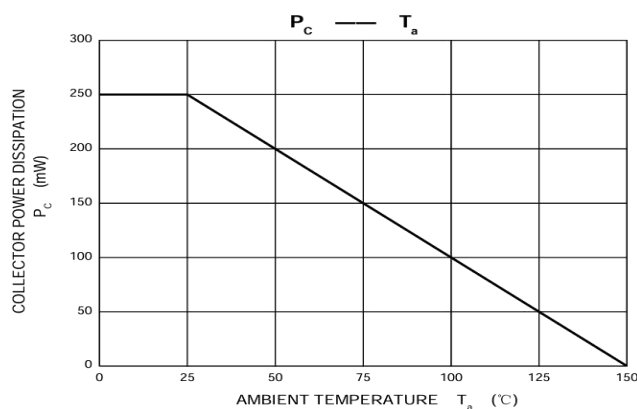
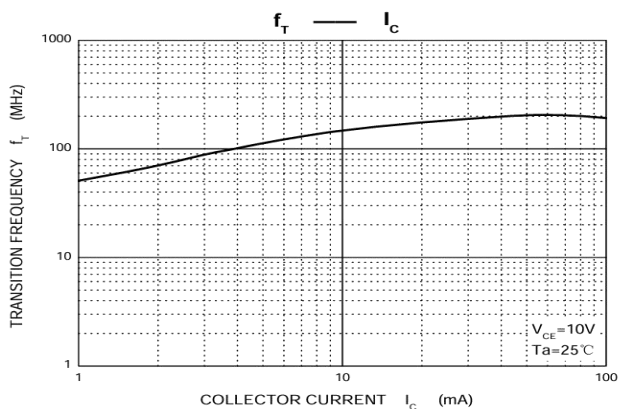
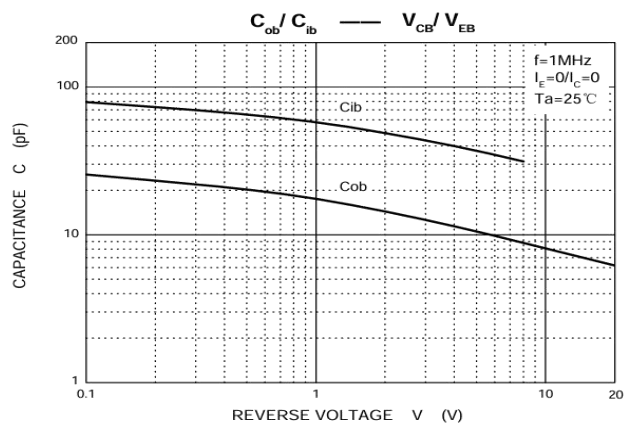
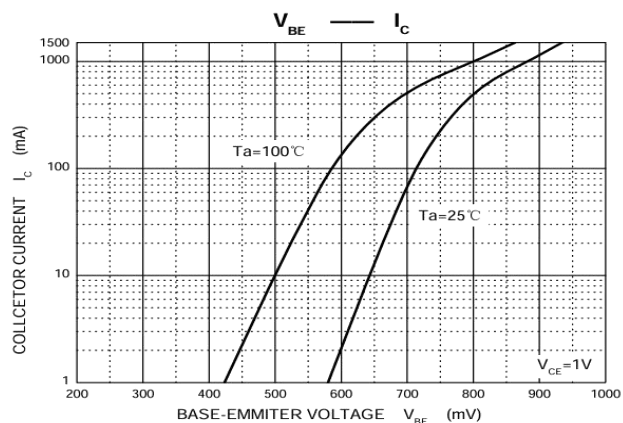
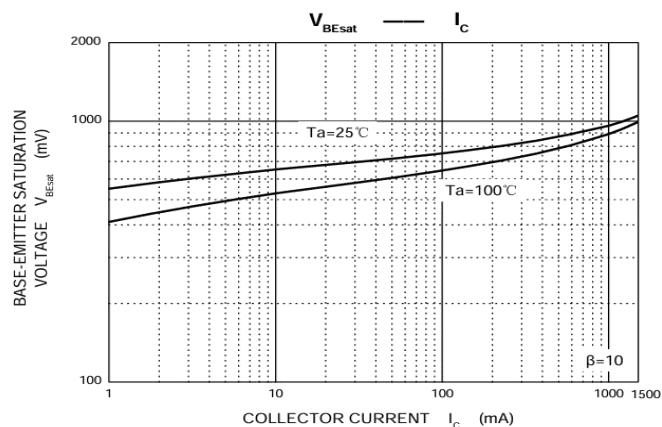
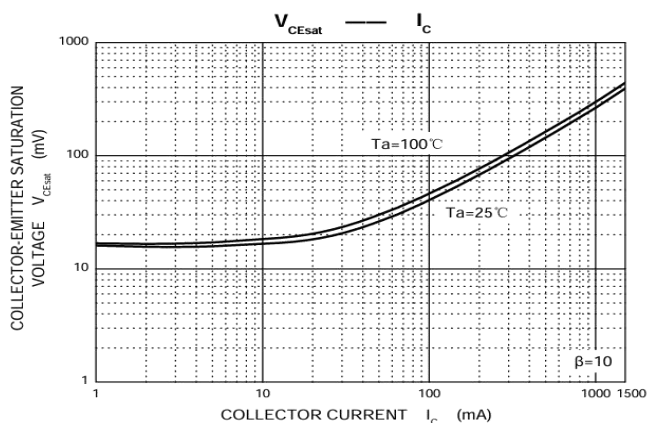
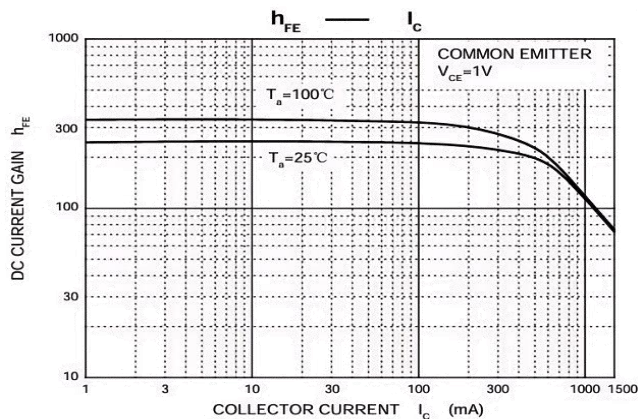
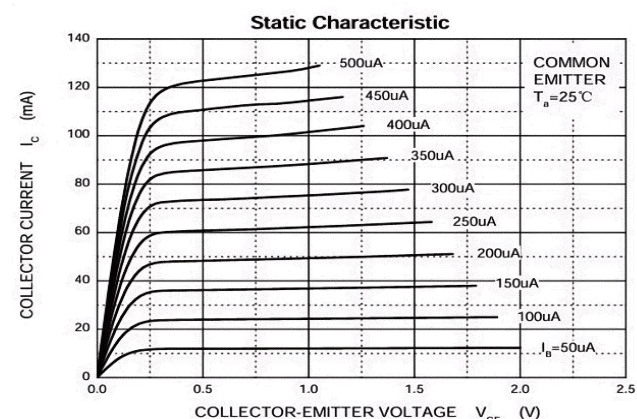
PARAMETER	SYMBOL		TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	V _{(BR)CBO}		I _C =100μA, I _E =0	40			V
Collector-emitter breakdown voltage	V _{(BR)CEO}		I _C =0.1mA, I _B =0	25			V
Emitter-base breakdown voltage	V _{(BR)EBO}		I _E =100μA, I _C =0	5			V
Collector cutoff current	I _{CBO}		V _{CB} =40V, I _E =0			0.1	μA
Collector cutoff current	I _{CEO}		V _{CE} =20V, I _E =0			0.1	μA
Emitter cutoff current	I _{EBO}		V _{EB} =5V, I _C =0			0.1	μA
DC Current Gain (CLASSIFICATION OF hFE1)	h _{FE1}	L	V _{CE} =1V, I _C =100mA	120		200	
		H		200		350	
		J		300		400	
	h _{FE2}		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
Transition frequency	f _T		V _{CE} =10V, I _C =50mA, f=30MHz	100			MHz



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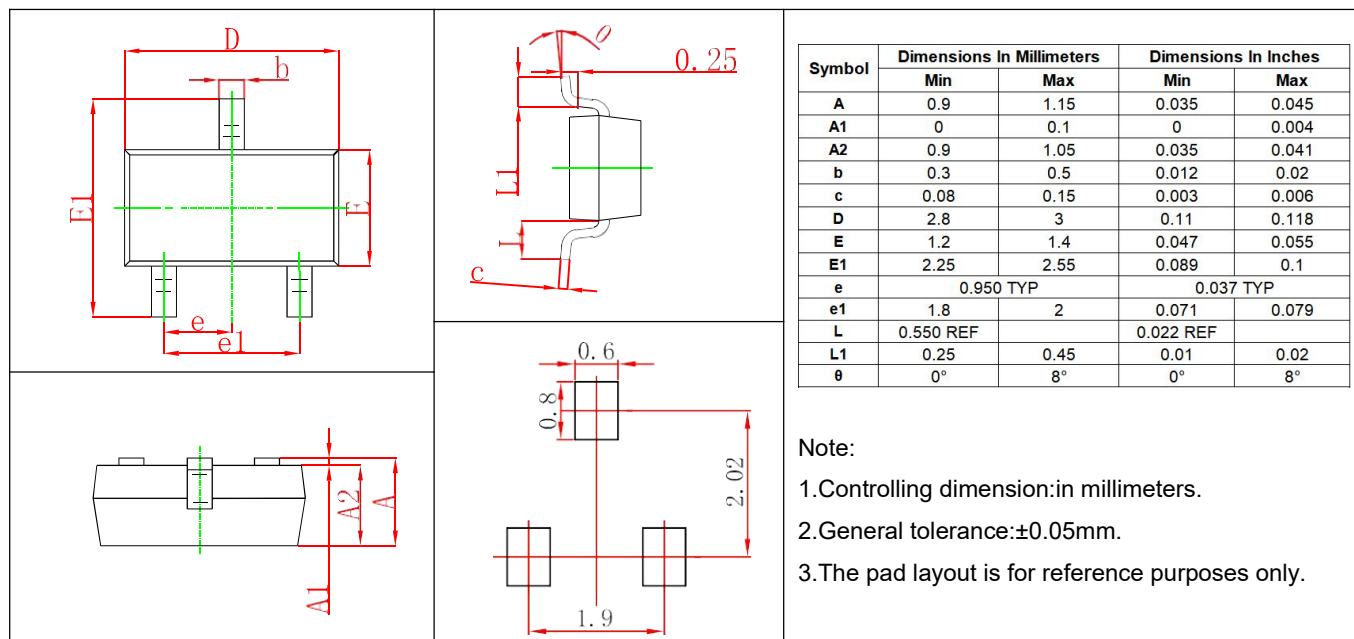
TYPICAL CHARACTERISTICS



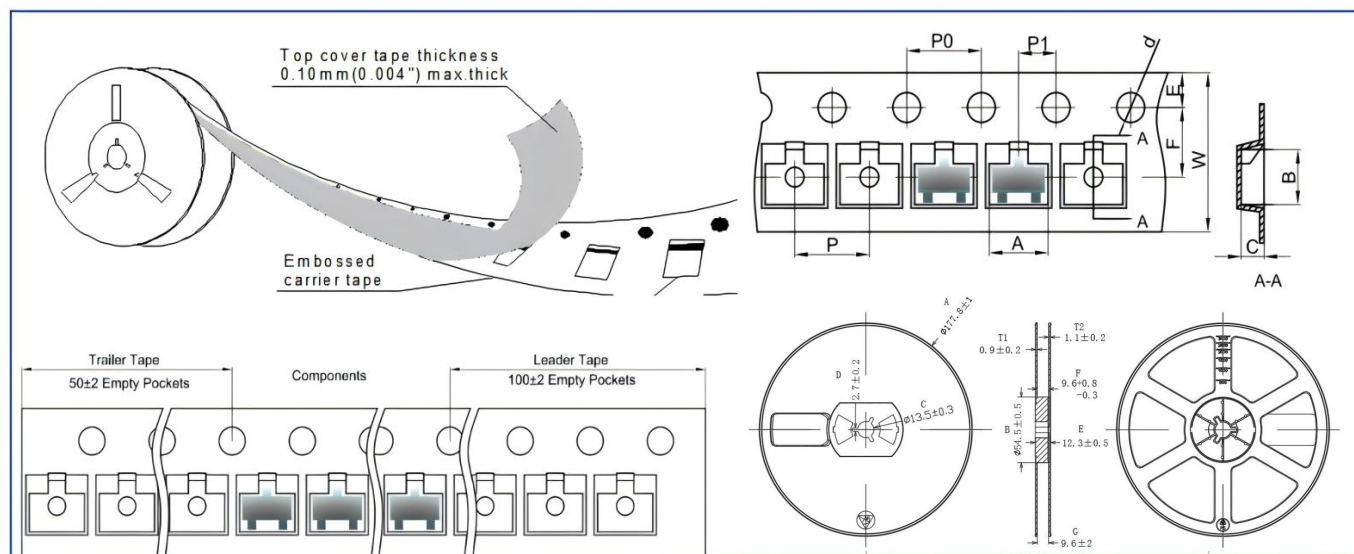
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SOT23 PACKAGE OUTLINE DIMENSIONS



REEL PACKING



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 Option	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