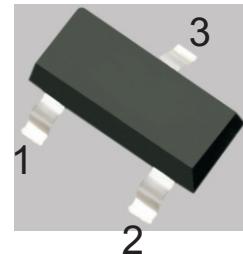


SS8050
NPN TRANSISTOR
FEATURES

- Complimentary to SS8550

SOT-23

1.BASE
2.EMITTER
3.COLLECTOR

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

Parameter	Symbol	Value	Unit
Collector-Base Voltage	V _{CBO}	40	V
Collector-Emitter Voltage	V _{CEO}	25	V
Emitter-Base Voltage	V _{EBO}	5	V
Collector Current — Continuous	I _C	1.5	A
Collector Power Dissipation	P _C	300	mW
Thermal Resistance From Junction To Ambient	R _{thJA}	417	°C/W
Operation Junction and Storage Temperature Range	T _J , T _{stg}	-55~+150	°C

CLASSIFICATION OF h_{FE1}

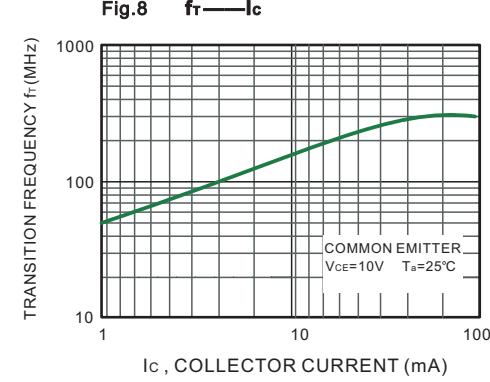
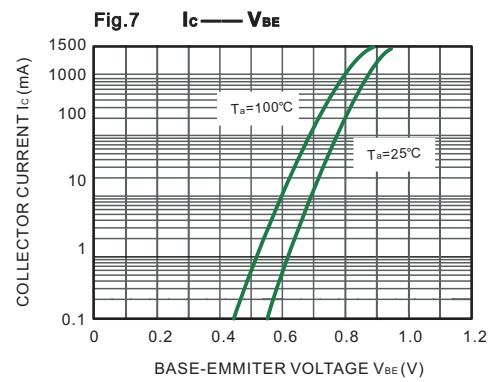
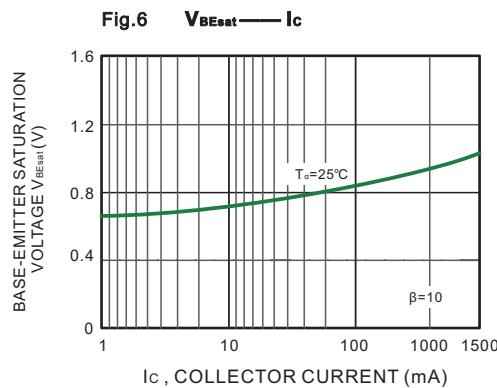
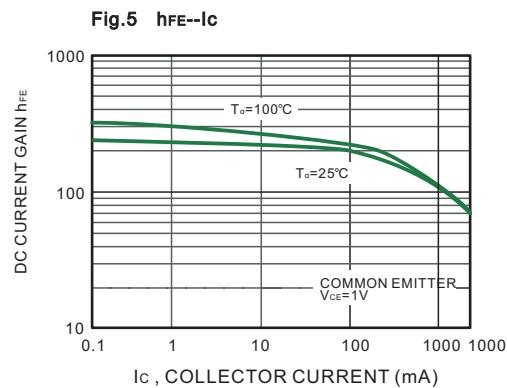
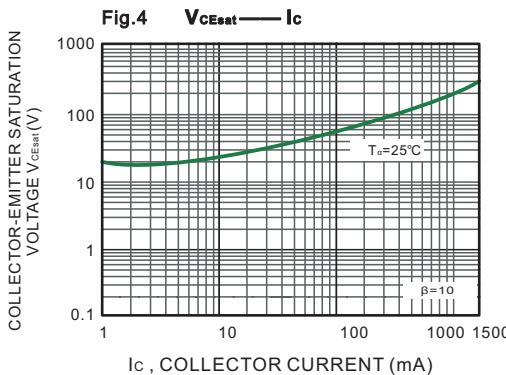
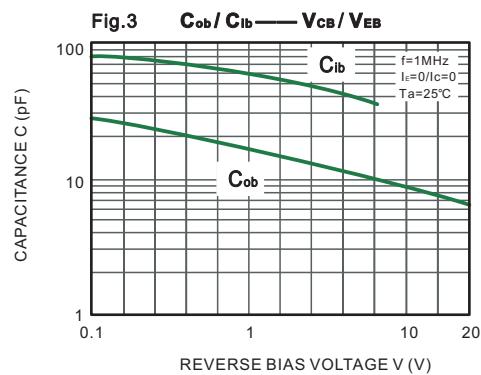
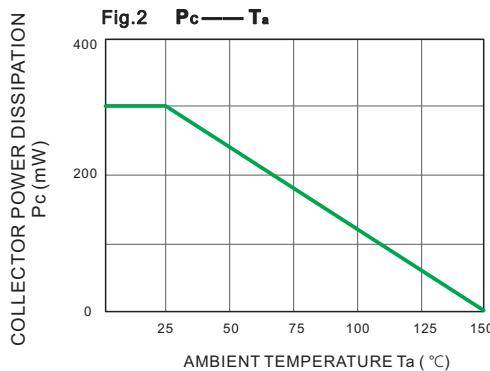
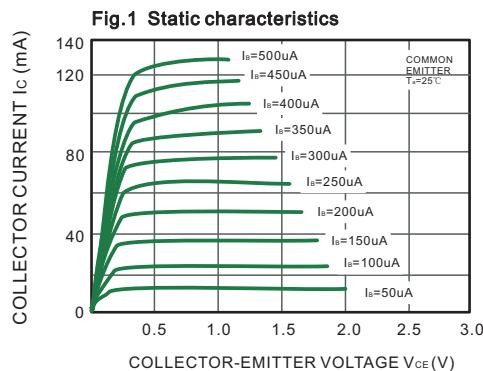
Rank	L	H	J
Range	120-200	200-350	300-400

ELECTRICAL CHARACTERISTICS (TA = 25°C unless otherwise noted.)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C = 100uA, I _E = 0	40			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C = 0.1 mA, I _B = 0	25			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E = 100uA, I _C = 0	5			V
Collector cut-off current	I _{CBO}	V _{CB} = 40V, I _E = 0			0.1	uA
Collector cut-off current	I _{CEO}	V _{CE} = 20V, I _E =0			0.1	uA
Emitter cut-off current	I _{EBO}	V _{EB} = 5V, I _C = 0			0.1	uA
DC current gain	h _{FE1}	V _{CE} = 1V, I _C = 100mA	120		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

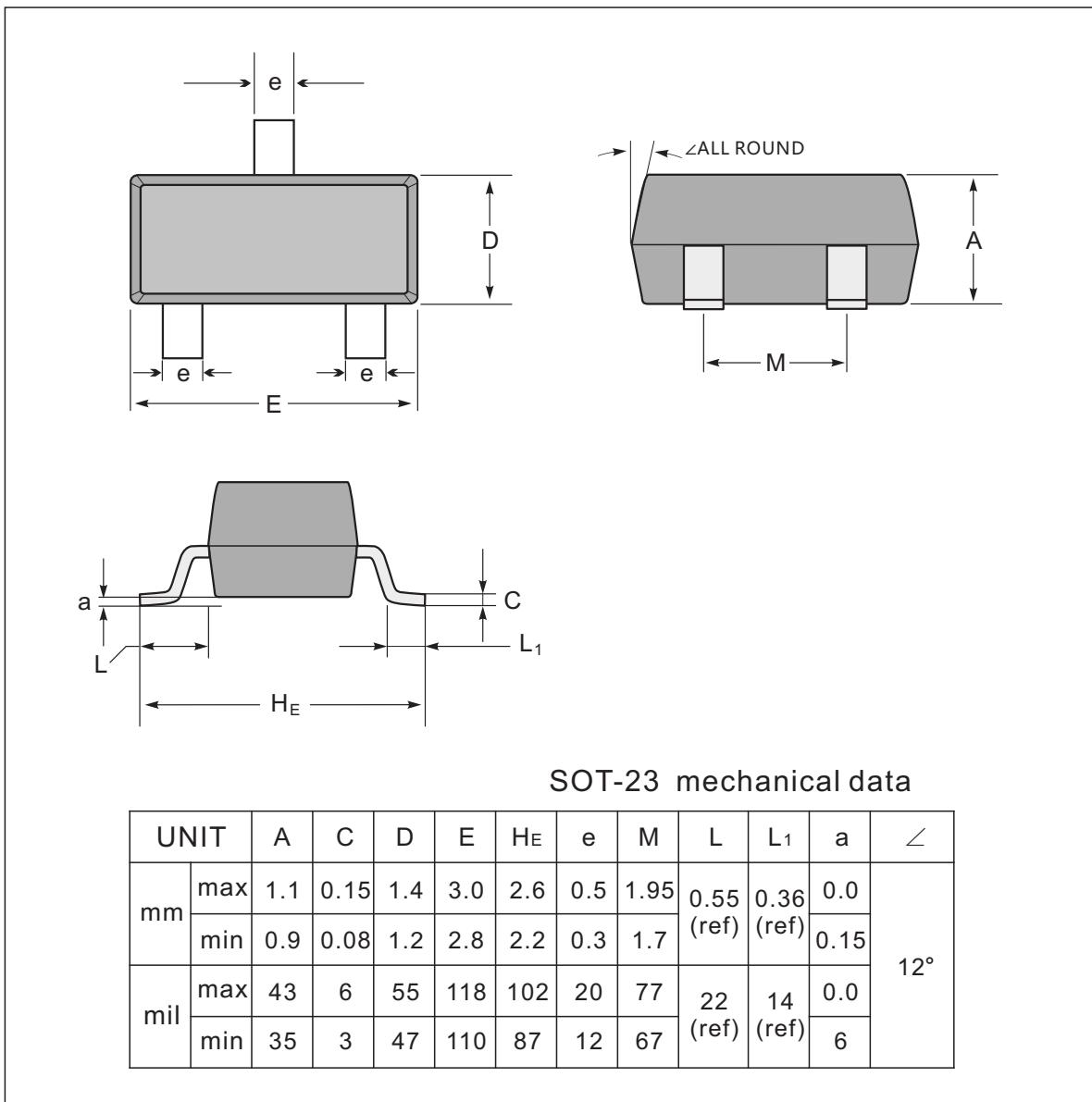


TYPICAL CHARACTERISTICS





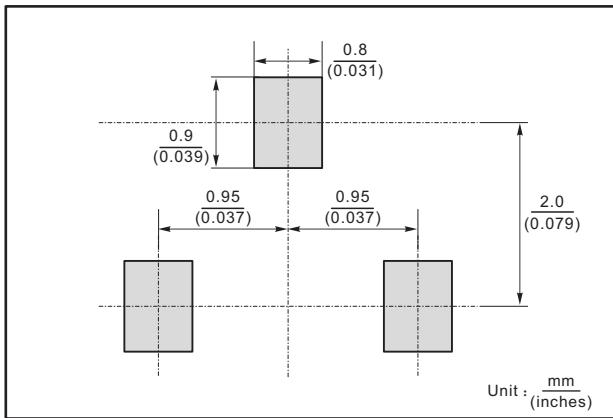
SOT-23 Package Outline Dimensions



SOT-23 mechanical data

UNIT		A	C	D	E	H _E	e	M	L	L ₁	a	∠
mm	max	1.1	0.15	1.4	3.0	2.6	0.5	1.95	0.55 (ref)	0.36 (ref)	0.0	12°
	min	0.9	0.08	1.2	2.8	2.2	0.3	1.7			0.15	
mil	max	43	6	55	118	102	20	77	22 (ref)	14 (ref)	0.0	
	min	35	3	47	110	87	12	67			6	

The recommended mounting pad size



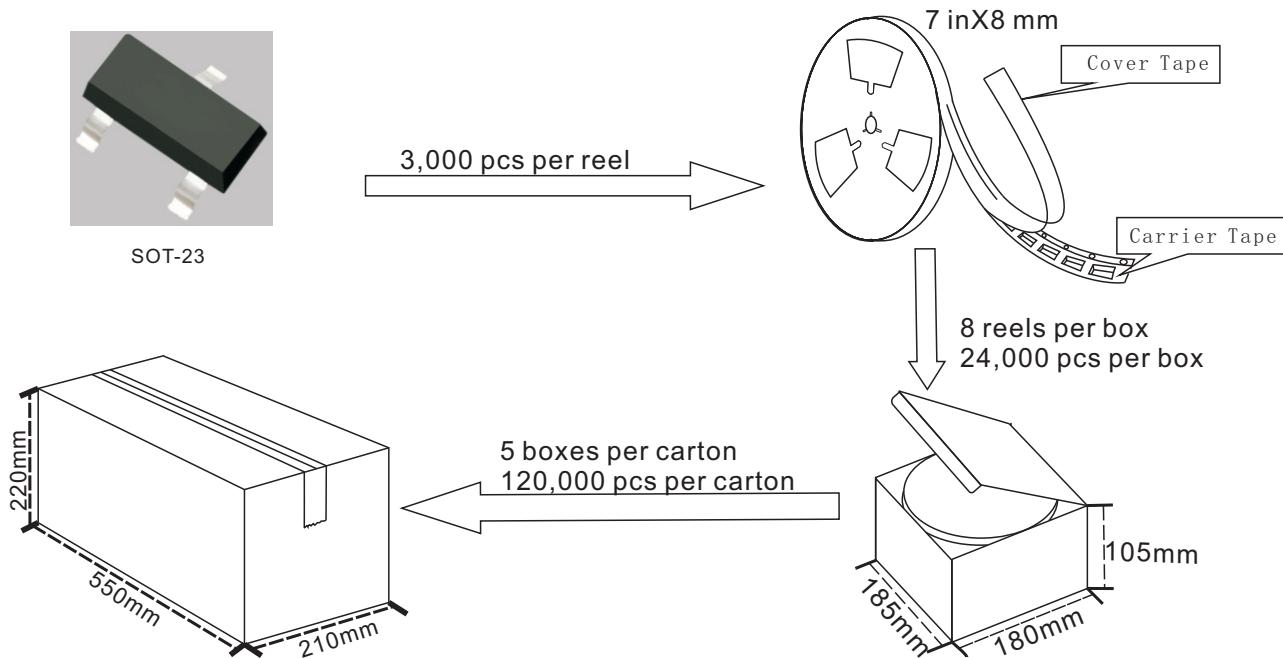
Marking

Type number	Marking code
SS8050	Y1

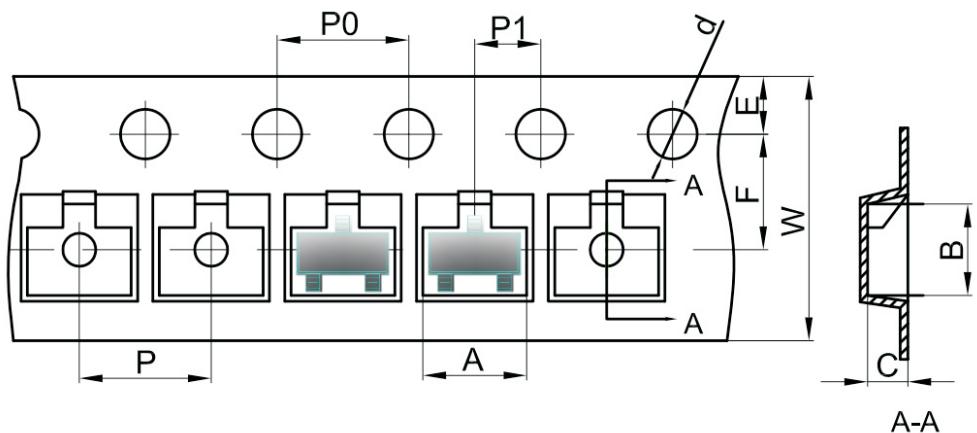


SOT-23 Packing

1. The method of packaging and dimension are shown as below figure. (Dimension in mm)

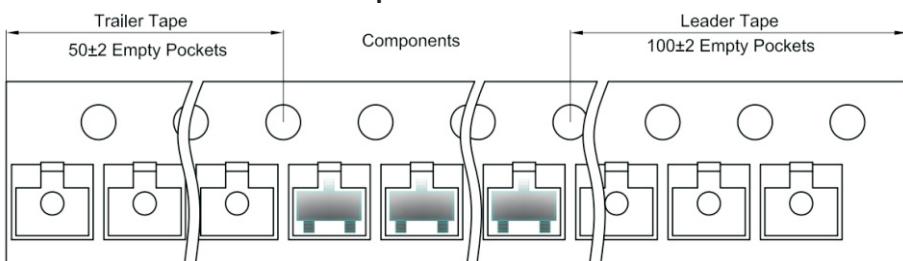


SOT-23 Embossed Carrier Tape



Dimensions are in millimeter										
Pkg type	A	B	C	d	E	F	P0	P	P1	W
SOT-23	3.15	2.77	1.22	Ø1.50	1.75	3.50	4.00	4.00	2.00	8.00

SOT-23 Tape Leader and Trailer



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