

JIANGSU CHANGJING ELECTRONICS TECHNOLOGY CO., LTD

SOT-23 Plastic-Encapsulate Transistors

\$8050 TRANSISTOR (NPN)

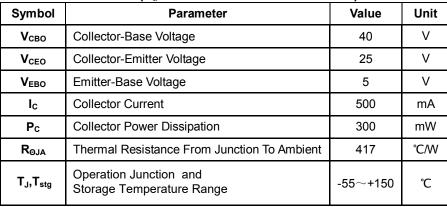
FEATURES

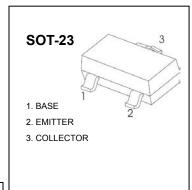
Complimentary to S8550

Collector Current: I_C=0.5A

MARKING: J3Y

MAXIMUM RATINGS (T_a=25℃ unless otherwise noted)





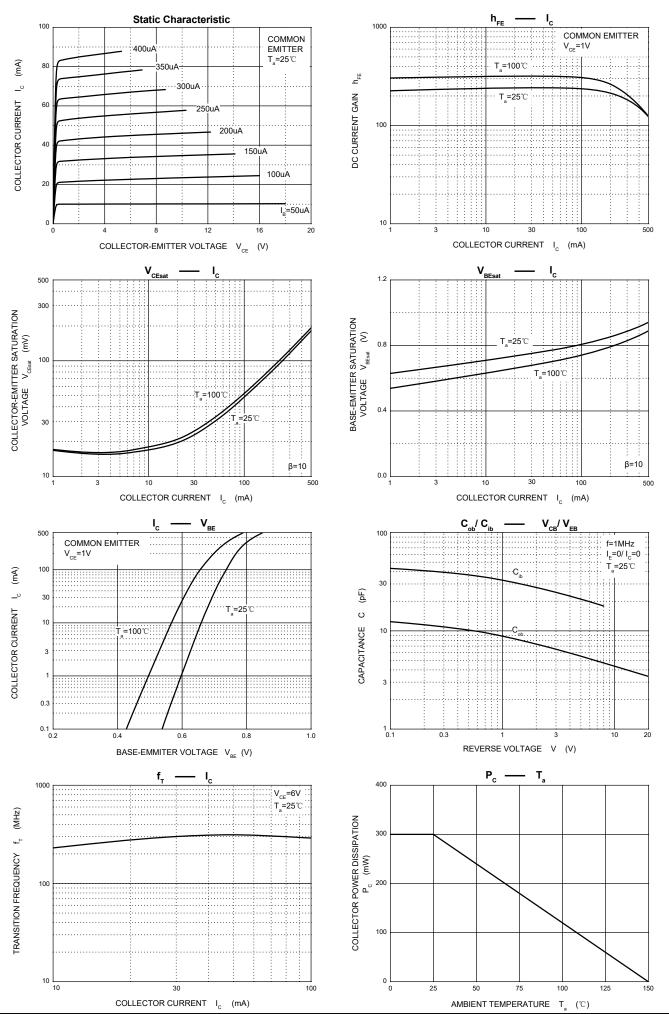
ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Тур	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} =40 V , I _E =0			0.1	μΑ
Collector cut-off current	I _{CEO}	V _{CE} =20V , I _B =0			0.1	μΑ
Emitter cut-off current	I _{EBO}	V _{EB} = 5V , I _C =0			0.1	μΑ
DC ourrent goin	h _{FE(1)}	V _{CE} =1V, I _C = 50mA	120		400	
DC current gain	h _{FE(2)}	V _{CE} =1V, I _C = 500mA	50			
Collector-emitter saturation voltage	V _{CE} (sat)	Ic=500 mA, I _B = 50mA			0.6	V
Base-emitter saturation voltage	V _{BE} (sat)	I _C =500 mA, I _B = 50mA			1.2	V
Transition frequency	f⊤	V _{CE} =6V, I _C = 20mA f=30MHz	150			MHz

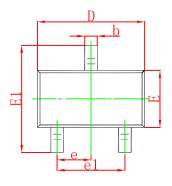
CLASSIFICATION OF hfe(1)

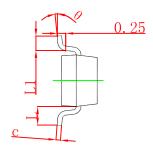
Rank	L	Н	J		
Range	120-200	200-350	300-400		

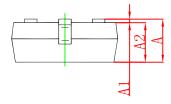
Typical Characteristics



SOT-23 Package Outline Dimensions

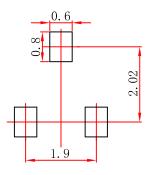






Cumhal	Dimensions	In Millimeters	Dimensions In Inches			
Symbol	Min	Max	Min	Max		
Α	0.900	1.150	0.035	0.045		
A1	0.000	0.100	0.000	0.004		
A2	0.900	1.050	0.035	0.041		
b	0.300	0.500	0.012	0.020		
С	0.080	0.150	0.003	0.006		
D	2.800	3.000	0.110	0.118		
E	1.200	1.400	0.047	0.055		
E1	2.250	2.550	0.089	0.100		
е	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



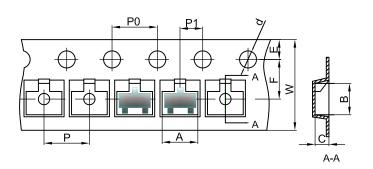
Note:

- 1.Controlling dimension:in millimeters.
- 2.General tolerance:± 0.05mm.
- 3. The pad layout is for reference purposes only.

NOTICE

JSCJ reserves the right to make modifications,enhancements,improvements,corrections or other changes without further notice to any product herein. JSCJ does not assume any liability arising out of the application or use of any product described herein.

SOT-23 Embossed Carrier Tape

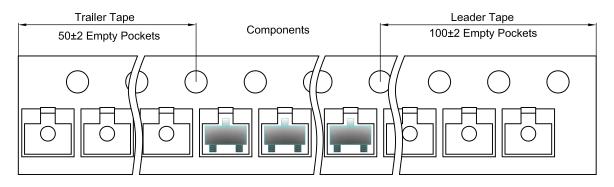


Packaging Description:

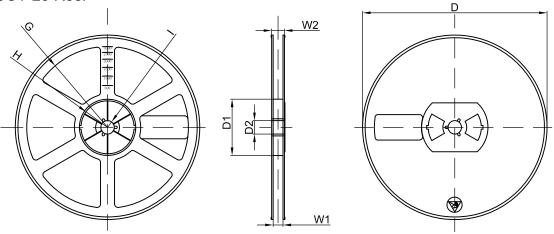
SOT-23 parts are shipped in tape. The carrier tape is made from a dissipative (carbon filled) polycarbonate resin. The cover tape is a multilayer film (Heat Activated Adhesive in nature) primarily composed of polyester film, adhesive layer, sealant, and anti-static sprayed agent. These reeled parts in standard option are shipped with 3,000 units per 7" or 17.8cm diameter reel. The reels are clear in color and is made of polystyrene plastic (anti-static coated).

	Dimensions are in millimeter									
Pkg type	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



SOT-23 Reel



Dimensions are in millimeter								
Reel Option	Reel Option D D1 D2 G H I W1 W2							
7"Dia	Ø178.00	54.40	13.00	R78.00	R25.60	R6.50	9.50	12.30

REEL	Reel Size	Вох	Box Size(mm)	Carton	Carton Size(mm)	G.W.(kg)
3000 pcs	7 inch	45,000 pcs	203×203×195	180,000 pcs	438×438×220	