

SOT-23 Plastic-Encapsulate Transistors

TRANSISTOR(PNP)

Features

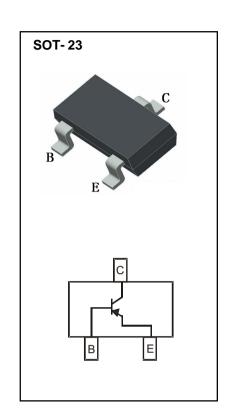
- Complimentary to S8050
- Collector Current: I_C=-0.5A

Marking:

2TY

Limiting Values (Absolute Maximum Rating)

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
Ic	Collector Current	-500	mA
Pc	Collector Power Dissipation	300	mW
Roja	Thermal Resistance From Junction To Ambient	417	°C/W
T _j	Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature	<i>-</i> 55∼+150	$^{\circ}$



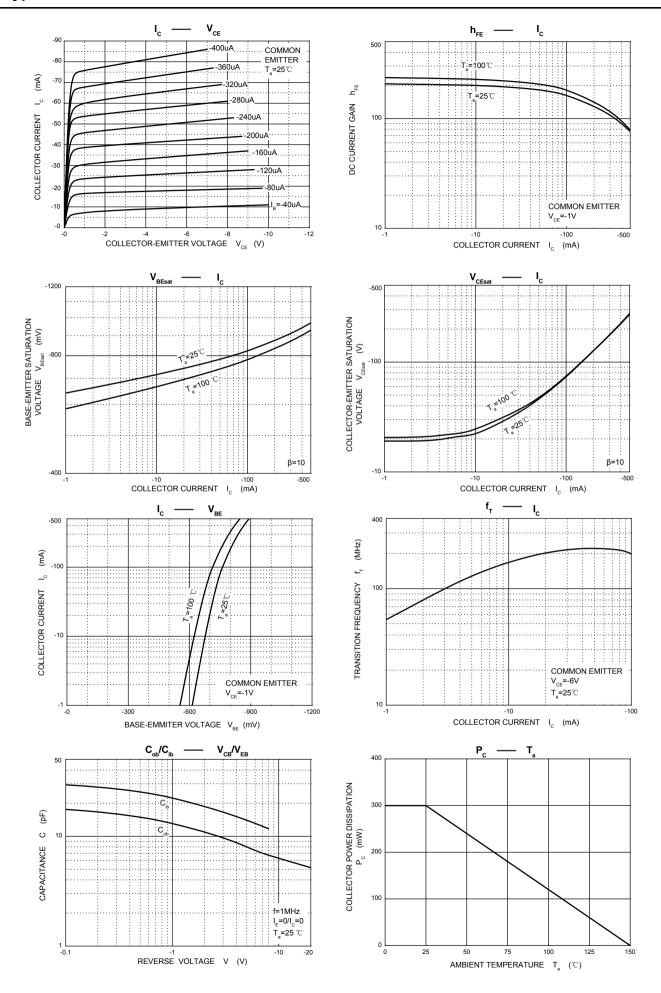
Electrical Characteristics (T=25°C Unless otherwise specified)

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 = -100μΑ, I _C =0	-5		V
Collector cut-off current	I _{CBO}	V _{CB} = -40V, 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} = -3V, I _C =0		-0.1	μΑ
DC ourrent gain	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)	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⊤	V _{CE} = -6V, I _C = -20mA f=30MHz	150		MHz

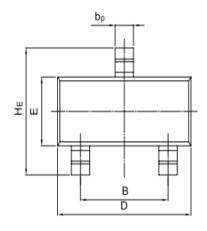
CLASSIFICATION OF h_{FE}

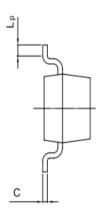
RANK	L	Н	J
RANGE	120-200	200-350	300-400

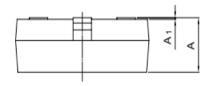
Typical Characteristics



SOT-23 Package Outline Dimensions

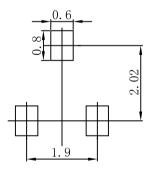






UNIT	Α	В	bp	С	D	E	HE	A1	Lp	
mm	1.40 0.95	2.04 1.78	0.50 0.35	0.19 0.08	3.10 2.70	1.65 1.20	3.00 2.20	0.100 0.013		

SOT-23 Suggested Pad Layout



Note:

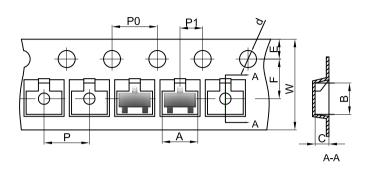
- 1. Controlling dimension: in millimeters.
- 2.General tolerance:± 0.05mm.
- 3. The pad layout is for reference purposes only.

NOTICE

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

Reel Taping Specifications For Surface Mount Devices-SOT-23

SOT-23 Embossed Carrier Tape

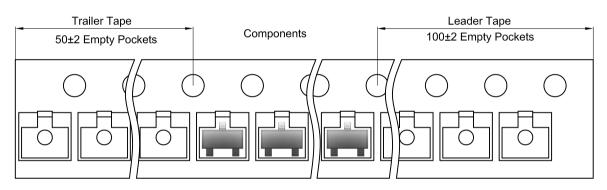


Packaging Description:

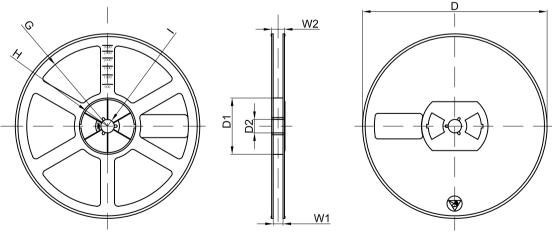
SOT-23 parts are shipped in tape. The carrier tape is made from a dissipative (carbon filled) polycarbonate resin. The cover tape is a multilayer film (Heat Activated Adhesive in nature) primarily composed of polyester film, adhesive layer, sealant, and anti-static sprayed agent. These reeled parts in 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 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







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	Box	Box Size(mm)	Carton	Carton Size(mm)	G.W.(kg)
3000 pcs	7 inch	45,000 pcs	203×203×195	180,000 pcs	438×438×230	

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