

SOT-23 Plastic-Encapsulate Transistors

TRANSISTOR (NPN)

FEATURES

- High Voltage Application
- Telephone Application
- Complementary to MMBTA93

MARKING:ABX

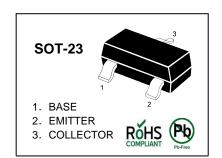


Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	200	٧
V _{CEO}	Collector-Emitter Voltage	200	٧
V _{EBO}	Emitter-Base Voltage	5	V
Ic	Collector Current	500	mA
Pc	Collector Power Dissipation	350	mW
R _{OJA}	Thermal Resistance From Junction To Ambient	357	°C/W
Tj	Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature	-55∼+150	$^{\circ}$

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

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =0.1mA, I _E =0	200			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =1mA, I _B =0	200			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =0.1mA, I _C =0	5			V
	h _{FE(1)} *	V _{CE} =10V, I _C =10mA	40			
DC current gain	h _{FE(2)} *	V _{CE} =10V, I _C =1mA	40			
	h _{FE(3)} *	V _{CE} =10V, I _C =30mA	40			
Collector-emitter saturation voltage	V _{CE(sat)} *	I _C =20mA, I _B =2mA			0.5	V
Base-emitter saturation voltage	V _{BE(sat)} *	I _C =20mA, I _B =2mA			0.9	V
Transition frequency	f⊤	V _{CE} =20V,I _E =10mA, f=100MHz	50			MHz
Collector output capacitance	C _{ob}	V _{CB} =20V, I _E =0, f=1MHz			4	pF

^{*}Pulse test: pulse width ≤300µs, duty cycle≤ 2.0%.

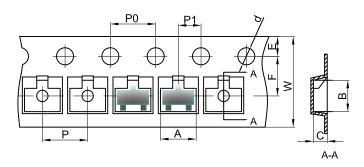


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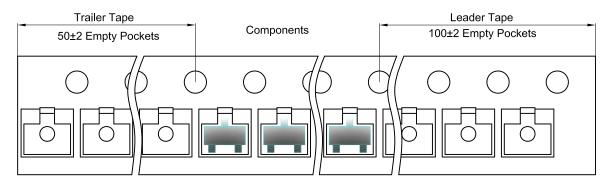
SOT-23 Tape and Reel

SOT-23 Embossed Carrier Tape

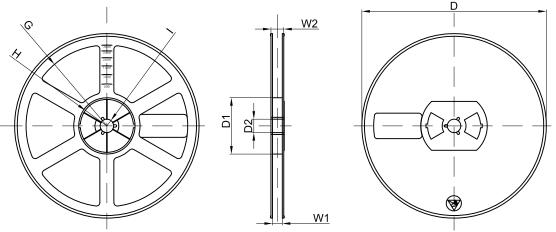


Dimensions are in millimeter										
Pkg type	Α	В	С	d	E	F	P0	Р	P1	W
SOT-23	3.15	2.77	1.22	Ø1.50	1.75	3.50	4.00	4.00	2.00	8.00

SOT-23 Tape Leader and Trailer





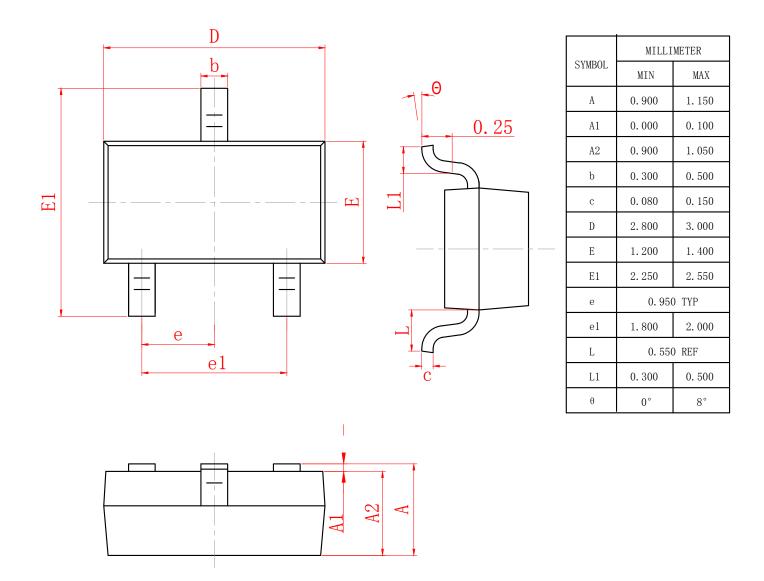


Dimensions are in millimeter									
Reel Option	D	D1	D2	G	Н	I	W1	W2	
7"Dia	Ø178.00	54.40	13.00	R78.00	R25.60	R6.50	9.50	12.30	

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	438×438×220	

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