SOT-23



Silicon Epitaxial Planar Diode

Low leakage switching double diode For low leakage current applications

Feature

- Very low leakage current
- Medium speed switching times
- · Series pair configuration





Marking Code: PX

Absolute Maximum Ratings (T_a = 25 °C)

Parameter		Symbol	Value	Unit
Peak Repetitive Reverse Voltage		V_{RRM}	85	V
Continuous Reverse Voltage		V_R	85	V
Continuous Forward Current	Single Diode Double Diode	I _F	160 140	mA
Repetitive Peak Forward Current		I _{FRM}	500	mA
Non-Repetitive Peak Forward Surge Current	at t = 1 µs at t = 1 ms at t = 1 s	I _{FSM}	4 1 0.5	А
Power Dissipation		P_D	250	mW
Thermal Resistance Junction to Ambient Air		$R_{ heta JA}$	500	°C/W
Operating and Storage Temperature Range		T_{j},T_{stg}	- 65 to + 150	°C

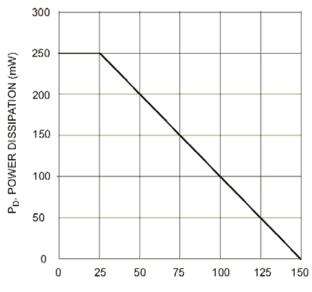
Electrical Characteristics (T_a = 25 °C)

Parameter	Symbol	Min.	Тур.	Max.	Unit
Reverse Breakdown Voltage at I _R = 100 μA	V _{(BR)R}	85	-	-	V
Forward Voltage at $I_F = 1$ mA at $I_F = 10$ mA at $I_F = 50$ mA at $I_F = 150$ mA	V _F	- - -	- - -	0.9 1 1.1 1.25	V
Reverse Current at V_R = 75 V at V_R = 75 V, T_j = 150 °C	I _R	- -	- -	5 80	nA
Total Capacitance at $V_R = 0$, $f = 1$ MHz	Ст	-	2	-	pF
Reverse Recovery Time at $I_F = I_R = 10$ mA, $I_{rr} = 0.1$ X I_R , $R_L = 100$ Ω	t _{rr}	-	-	3	μs

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Typical Characteristics



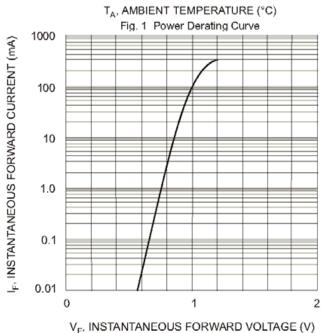
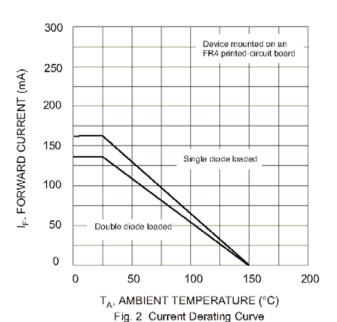


Fig. 3 Typical Forward Characteristics



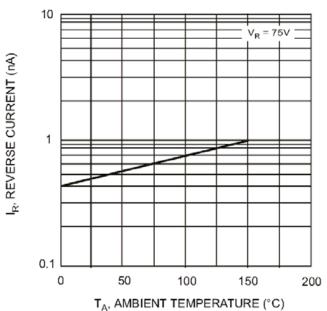


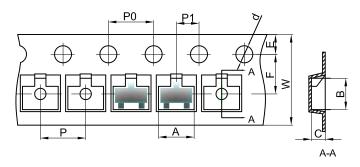
Fig. 4 Typical Reverse Characteristics

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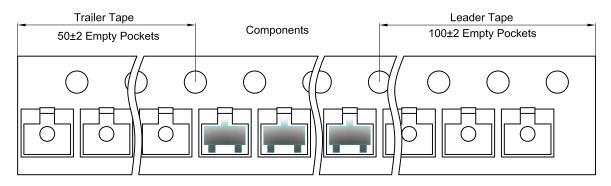
SOT-23 Tape and Reel

SOT-23 Embossed Carrier Tape

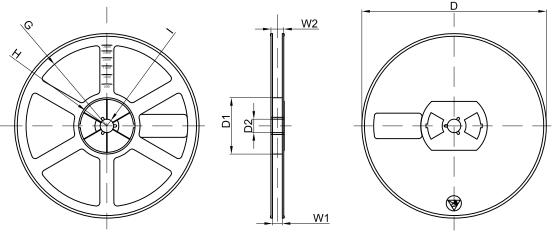


Dimensions are in millimeter										
Pkg type	Α	В	С	d	E	F	P0	Р	P1	W
SOT-23	3.15	2.77	1.22	Ø1.50	1.75	3.50	4.00	4.00	2.00	8.00

SOT-23 Tape Leader and Trailer





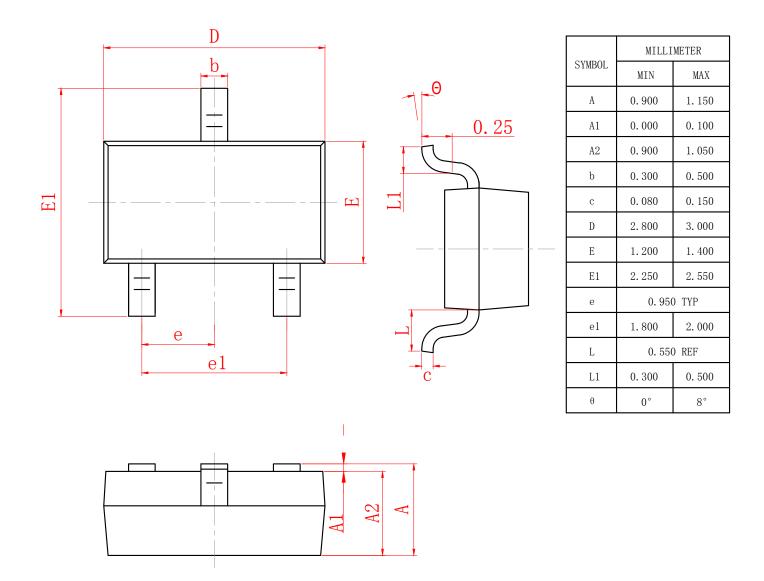


Dimensions are in millimeter									
Reel Option	D	D1	D2	G	Н	I	W1	W2	
7"Dia	Ø178.00	54.40	13.00	R78.00	R25.60	R6.50	9.50	12.30	

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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