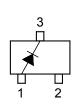


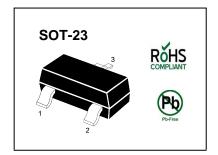
# Silicon Epitaxial Planar Diode

Low leakage switching diode

#### **Features**

- Plastic SMD package
- · Low leakage current





#### **Application**

 Low leakage current applications in surface mounted circuits.

Absolute Maximum Ratings  $(T_a = 25 C)$ 

Parameter		Symbol	Value	Unit
Repetitive Peak Reverse Voltage		$V_{RRM}$	85	V
Continuous Reverse Voltage		$V_R$	75	V
Continuous Forward Current		I <sub>F</sub>	215	mA
Repetitive Peak Forward Current		I <sub>FRM</sub>	500	mA
Non-Repetitive Peak Forward Surge Current	t = 1 μs t = 1 ms t = 1 s	I <sub>FSM</sub>	4 1 0.5	Α
Power Dissipation		P <sub>tot</sub>	250	mW
Junction Temperature		T <sub>j</sub>	150	°C
Storage Temperature Range		T <sub>stg</sub>	- 65 to + 150	°C

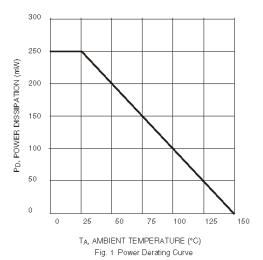
Characteristics at T<sub>a</sub> = 25 °C

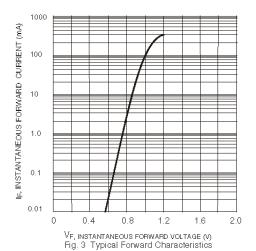
Parameter	Symbol	Тур.	Max.	Unit
Forward Voltage at $I_F = 1$ mA at $I_F = 10$ mA at $I_F = 50$ mA at $I_F = 150$ mA	V <sub>F</sub> V <sub>F</sub> V <sub>F</sub>	- - -	0.9 1 1.1 1.25	V V V
Reverse Current at $V_R$ = 75 V at $V_R$ = 75 V, $T_j$ = 150 °C	I <sub>R</sub>		5 80	nA
Diode Capacitance at V <sub>R</sub> = 0, f = 1 MHz	C <sub>d</sub>	2	-	pF
Reverse Recovery Time at $I_F = I_R = 10$ mA, $R_L = 100$ $\Omega$ , $i_{rr} = 0.1$ $I_R$	t <sub>rr</sub>	-	3	μs

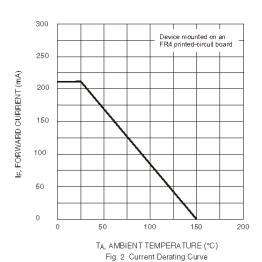
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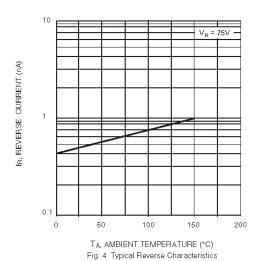


#### **Typical Characteristics**







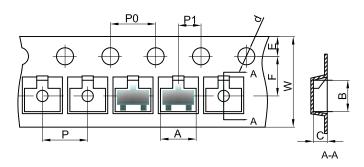


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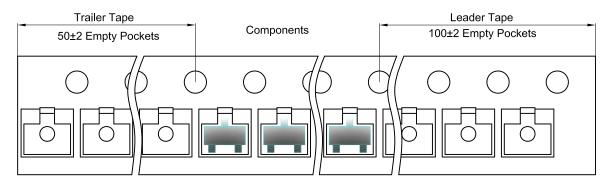
## **SOT-23 Tape and Reel**

## SOT-23 Embossed Carrier Tape

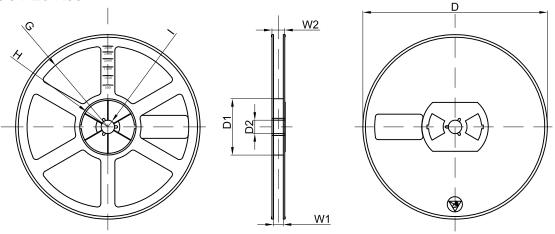


Dimensions are in millimeter										
Pkg type	Α	В	С	d	E	F	P0	Р	P1	W
SOT-23	3.15	2.77	1.22	Ø1.50	1.75	3.50	4.00	4.00	2.00	8.00

### SOT-23 Tape Leader and Trailer





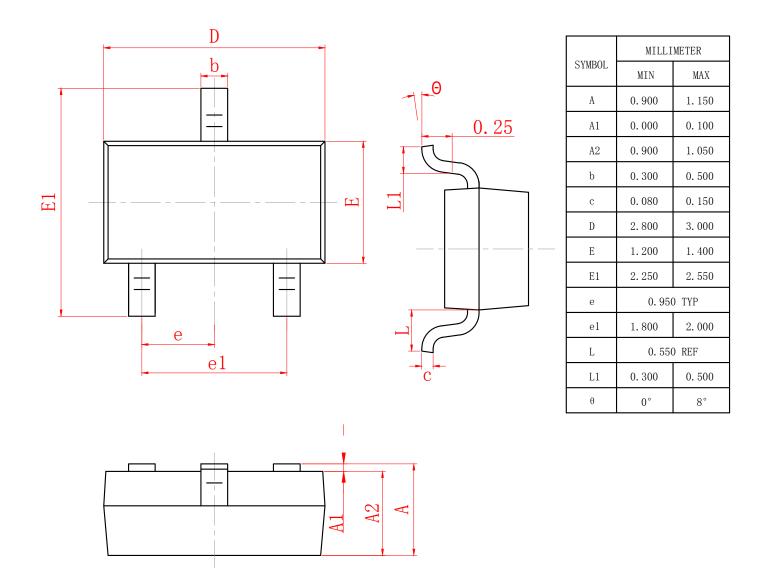


Dimensions are in millimeter								
Reel Option D D1 D2 G H I W1 W2							W2	
7"Dia	Ø178.00	54.40	13.00	R78.00	R25.60	R6.50	9.50	12.30

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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