

Silicon Epitaxial Planar Low Leakage Diode

For low leakage current applications

Feature

- Very low leakage current
- Medium speed switching times

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Absolute Maximum Ratings (T_a = 25 °C)

Parameter		Symbol	Value	Unit
Peak Repetitive Reverse Voltage		V_{RRM}	130	V
Continuous Forward Current		I _{FM}	215	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

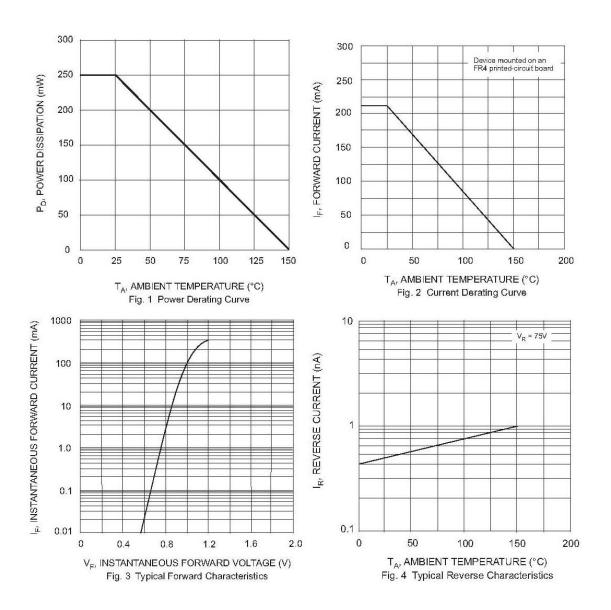
Electrical Characteristics (T_a = 25 °C)

Parameter	Symbol	Min.	Max.	Unit
Reverse Breakdown Voltage at I _R = 100 μA	$V_{(BR)R}$	130	-	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 $V_R = 75 \text{ V}$ at $V_R = 75 \text{ V}$, $T_j = 125 ^{\circ}\text{C}$	I _R		5 80	nA
Total Capacitance at $V_R = 0$, $f = 1$ MHz	C _T	-	5	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

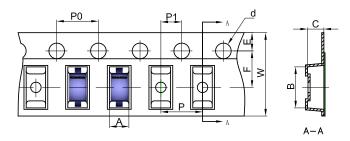


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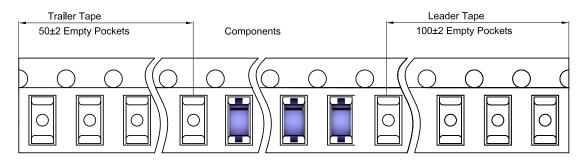
SOD-123 Tape and Reel

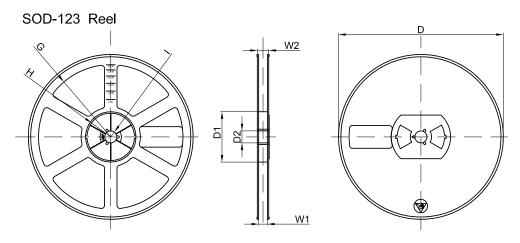
SOD-123 Embossed Carrier Tape



Dimensions are in millimeter										
Pkg type A B C d E F P0 P P1 W							W			
SOD-123	1.85	3.95	1.57	Ø1.55	1.75	3.50	4.00	4.00	2.00	8.00

SOD-123 Tape Leader and Trailer

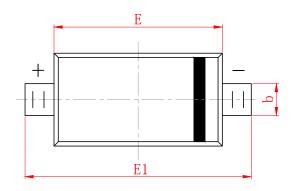


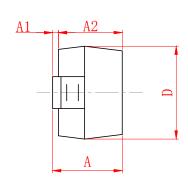


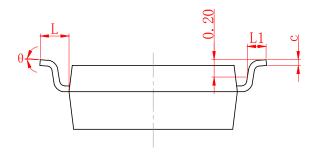
	Dimensions are in millimeter							
Reel Option	Reel Option D D1 D2 G H I W1 W2							W2
7"Dia	Ø178.00	54.40	13.00	R78.00	R25.60	R6.50	9.50	12.30

REEL	Reel Size	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	

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	MILLIMETER				
SYMBOL	MIN	MAX			
A	1.050	1. 250			
A1	0.000	0. 100			
A2	1.050	1. 150			
b	0. 450	0.650			
С	0.008	0. 150			
D	1. 500	1.700			
Е	2. 600	2.800			
E1	3. 550	3.850			
L	0. 500 (REF)				
L1	0. 250	0. 450			
θ	0°	8°			

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