

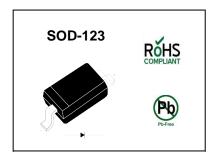
Silicon Epitaxial Planar Switching Diode

PINNING

PIN	DESCRIPTION	
1	Cathode	
2	Anode	

Features

- SOD-123 package
- Fast switching



Absolute Maximum Ratings (T_a = 25 °C)

Parameter	Symbol	Value	Unit
Peak Reverse Voltage	V_{RM}	75	V
Reverse Voltage	V_R	50	V
Average Rectified Forward Current	I _{F(AV)}	150	mA
Non-repetitive Peak Forward Surge Current (at t < 1 s)	I _{FSM}	500	mA
Power Dissipation	P _{tot}	410	mW
Thermal Resistance from Junction to Ambient Air	$R_{\theta JA}$	305	°C/W
Junction Temperature	T _j	150	°C
Storage Temperature Range	T _{stg}	- 65 to + 150	°C

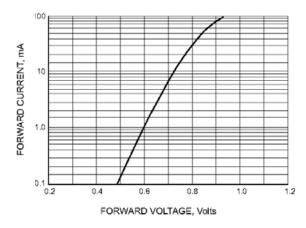
Electrical Characteristics (T_a = 25 °C)

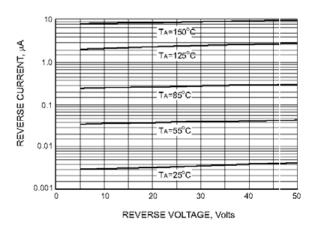
Parameter	Symbol	Min.	Max.	Unit
Forward Voltage at I _F = 50 mA	V _F	-	1	V
Reverse Breakdown Voltage at I_R = 5 μA	V _{(BR)R}	75	-	V
Reverse Current at V_R = 50 V at V_R = 20 V, T_J = 150 °C	I _R	- -	50 50	nΑ μΑ
Total Capacitance at $V_R = 0 \text{ V}$, $f = 1 \text{ MHz}$	C _{tot}	-	2	pF
Reverse Recovery Time at I_F = 10 mA through I_R = 10 mA to I_R = 1 mA at I_F = 10 mA to I_R = 1 mA, V_R = 6 V, R_L = 100 Ω	t _{rr}		4 2	ns

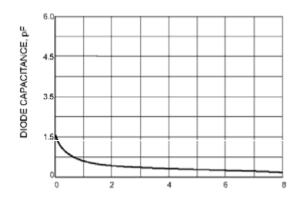
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Typical Characteristics







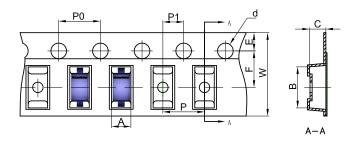
REVERSE VOLTAGE, Volts

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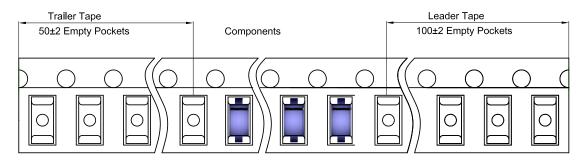
SOD-123 Tape and Reel

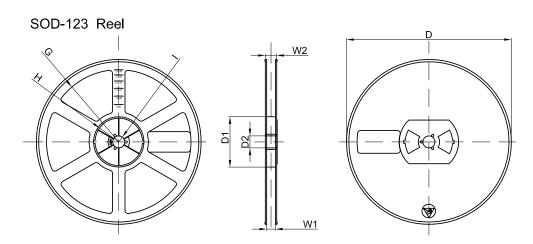
SOD-123 Embossed Carrier Tape



Dimensions are in millimeter										
Pkg type	Α	В	С	d	E	F	P0	Р	P1	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

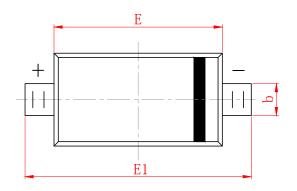


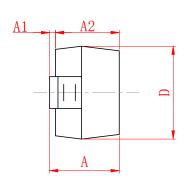


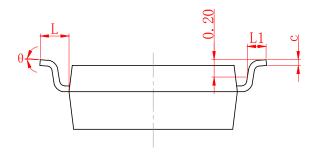
	Dimensions are in millimeter								
Reel Option	D	D1	D2	G	Н	Į	W1	W2	
7"Dia	Ø178.00	54.40	13.00	R78.00	R25.60	R6.50	9.50	12.30	

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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	i					
a.n.m.a.	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				
E	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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