

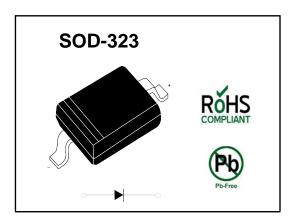
Silicon Epitaxial Planar Switching Diode

PIN	DESCRIPTION
1	Cathode
2	Anode

PINNING

Features

- Ultra high speed switching application
- · Low forward voltage
- Fast reverse recovery time
- Small total capacitance



Absolute Maximum Ratings (T_a = 25 °C)

Parameter	Symbol	Value	Unit
Reverse Voltage	V_R	80	V
Peak Reverse Voltage	V_{RM}	85	V
Average Rectified Forward Current	I _{F(AV)}	100	mA
Peak Forward Current	I _{FM}	300	mA
Surge Forward Current (10 ms)	I _{FSM}	2	А
Power Dissipation	P _{tot}	150	mW
Junction Temperature	T _j	150	°C
Storage Temperature Range	T _{stg}	- 55 to + 150	°C

Characteristics at $T_a = 25$ °C

Parameter	Symbol	Max.	Unit
Forward Voltage at I _F = 100 mA	V _F	1.2	V
Reverse Current at $V_R = 80 \text{ V}$	I _R	0.5	μΑ
Total Capacitance at $V_R = 0 \text{ V}$, $f = 1 \text{ MHz}$	C _{tot}	4	pF
Reverse Recovery Time at $I_F = I_R = 10$ mA, $I_{rr} = 0.1$ X I_R , $R_L = 100$ Ω	t _{rr}	4	ns

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Typical Characteristics



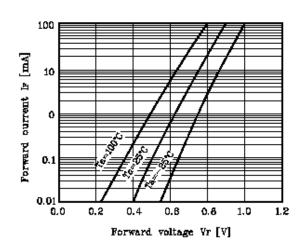


Fig. 2 I_R - V_R

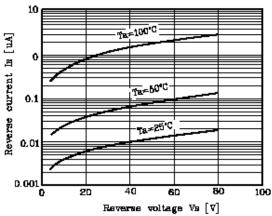


Fig. 3 C_{T} - V_{R}

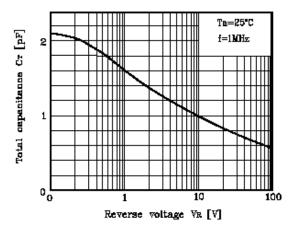
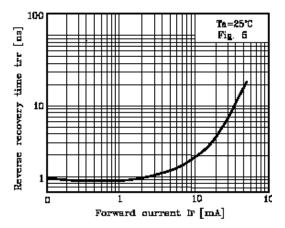


Fig. 4 trr-I_F

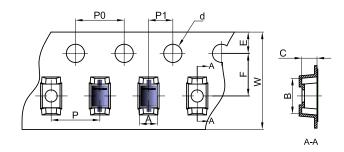


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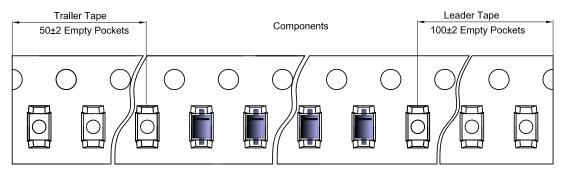
SOD-323 Tape and Reel

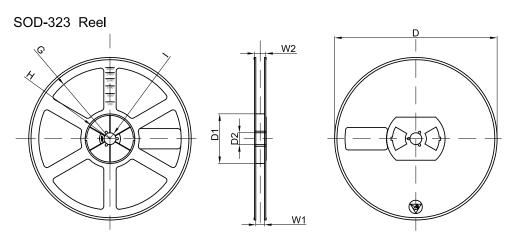
SOD-323 Embossed Carrier Tape



Dimensions are in millimeter										
Pkg type	Α	В	С	d	Е	F	P0	Р	P1	W
SOD-323	1.48	3.3	1.25	Ø1.50	1.75	3.50	4.00	4.00	2.00	8.00

SOD-323 Tape Leader and Trailer





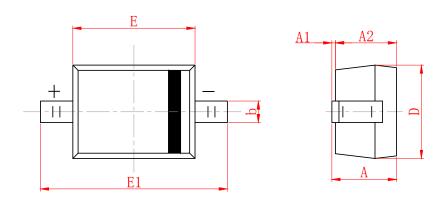
Dimensions are in millimeter								
Reel Option	D	D1	D2	G	Н	Į.	W1	W2
7"Dia	Ø178.00	54.40	13.00	R78.00	R25.60	R6.50	9.50	12.30

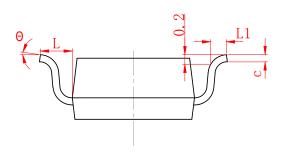
REEL	Reel Size	Box	Box Size(mm)	Carton	Carton Size(mm)	G.W.(kg)
3000 pcs	7 inch	45,000 pcs	203×203×195	180,000 pcs	438×438×220	

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SOD-323 Package Outline Dimensions





	MILLIMETER				
SYMBOL	MIN	MAX			
A		1.000			
A1	0.000	0. 100			
A2	0.800	0. 900			
b	0. 250	0.350			
С	0.008	0. 150			
D	1. 200	1. 400			
Е	1.600	1.800			
E1	2. 500	2. 700			
L	0. 475	5 (REF)			
L1	0. 250	0.400			
θ	0°	8°			

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