

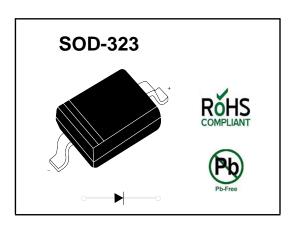
Surface Mount Schottky Barrier Diode

PINNING

PIN	DESCRIPTION		
1	Cathode		
2	Anode		

Features

- · Low forward voltage
- · High conductance



Absolute Maximum Ratings (T_a = 25 °C)

Parameter	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	40	V
Reverse Voltage	V _R	40	V
Average Rectified Forward Current	I _{F(AV)}	500	mA
Non-Repetitive Peak Forward Surge Current (Half Wave, Single Phase, 60 Hz)	I _{FSM}	5.5	Α
Thermal Resistance Junction to Lead 1)	R _{θJL}	118	°C/W
Thermal Resistance Junction to Ambient 2)	$R_{ heta JA}$	206	°C/W
Operating Junction Temperature Range	T _j	- 65 to + 150	°C
Storage Temperature Range	T _{stg}	- 65 to + 150	°C

Characteristics at T_a = 25 °C

Parameter	Symbol	Max.	Unit
Forward Voltage at $I_F = 0.5$ A at $I_F = 1$ A at $I_F = 0.5$ A, $T_a = 100$ °C at $I_F = 1$ A, $T_a = 100$ °C	V _F	0.51 0.62 0.46 0.61	V
Reverse Current at V_R = 20 V at V_R = 40 V at V_R = 20 V, T_a = 100 °C at V_R = 40 V, T_a = 100 °C	I _R	10 20 5 13	μΑ μΑ mA mA

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 $^{^{1)}}_{2)}$ Device mounted on FR-4 PCB 0.013 mm. 1 inch" pad size (1 X 0.5 inch for each lead) on FR4 board.



Typical Characteristics

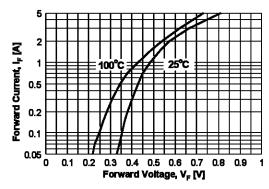


Figure 1. Forward Voltage Characteristics

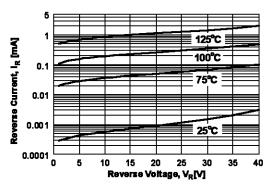


Figure 2. Reverse Current vs Reverse Voltage

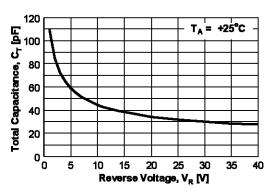


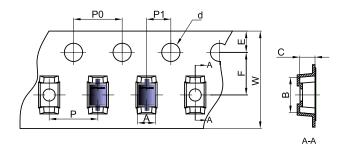
Figure 3. Total Capacitance

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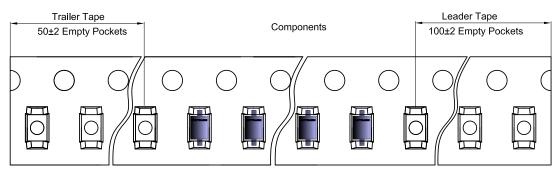
SOD-323 Tape and Reel

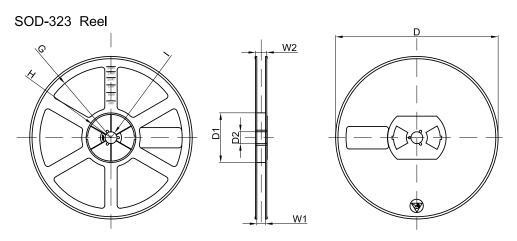
SOD-323 Embossed Carrier Tape



				Dimensions a	are in millime	ter				
Pkg type	Α	В	С	d	E	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





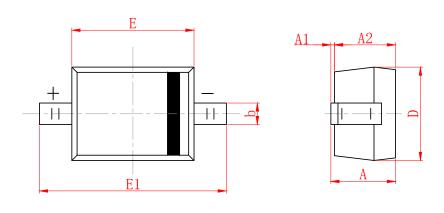
Dimensions are in millimeter								
Reel Option	D	D1	D2	G	Н	Į	W1	W2
7"D i a	Ø178.00	54.40	13.00	R78.00	R25.60	R6.50	9.50	12.30

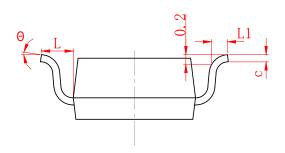
REEL	Reel Size	Вох	Box Size(mm)	Carton	Carton Size(mm)	G.W.(kg)
3000 pcs	7 inch	45,000 pcs	203×203×195	180,000 pcs	438×438×220	

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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			
E	1.600	1.800			
E1	2. 500	2. 700			
L	0. 475 (REF)				
L1	0. 250	0. 400			
θ	0°	8°			

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