

SMALL SIGNAL SCHOTTKY BARRIER DIODE

Features

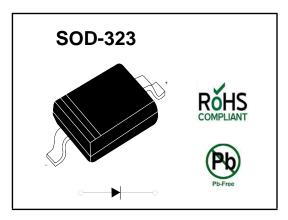
- Low Forward Voltage drop
- Surface mount device

Description

 High voltage schottky rectifier suited for SLIC protection during the card insertion operation

PINNING

PIN	DESCRIPTION			
1	Cathode			
2	Anode			



Absolute Maximum Ratings (T_a = 25 °C)

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	100	V
Continuous Forward Current	I _F	150	mA
Power Dissipation	P _{tot}	230	mW
Thermal Resistance Junction Ambient	R _{thJA}	550	°C/W
Operating Junction Temperature Range	T _J	150	°C
Storage Temperature Range	T _{stg}	- 65 to + 150	°C

Characteristics at T_a = 25 °C

Parameter	Symbol	Min.	Тур.	Max.	Unit
Reverse Breakdown Voltage at I _R = 100 μA	V_{BR}	100	1	-	V
Forward Voltage at I_F = 0.1 mA at I_F = 10 mA at I_F = 250 mA	V _F		1 1 1	0.25 0.45 1	٧
Reverse Current at $V_R = 1.5 \text{ V}$ at $V_R = 10 \text{ V}$ at $V_R = 50 \text{ V}$ at $V_R = 75 \text{ V}$ at $V_R = 1.5 \text{ V}$, $T_j = 60 ^{\circ}\text{C}$ at $V_R = 10 \text{ V}$, $T_j = 60 ^{\circ}\text{C}$ at $V_R = 50 \text{ V}$, $T_j = 60 ^{\circ}\text{C}$ at $V_R = 75 \text{ V}$, $T_j = 60 ^{\circ}\text{C}$	I _R			0.5 0.8 2 5 5 7.5 15	μΑ
Total Capacitance at $V_R = 0 \text{ V}$, $f = 1 \text{ MHz}$ at $V_R = 1 \text{ V}$, $f = 1 \text{ MHz}$	Ст	-	10 6	- -	pF

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Typical Characteristics

Fig. 1: Forward current versus forward voltage at different temperatures (typical values).

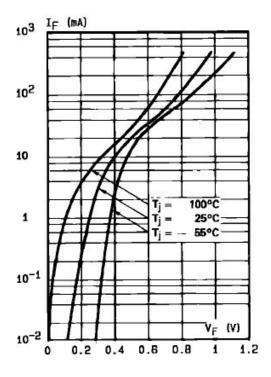


Fig. 3: Reverse current versus junction temperature (typical values).

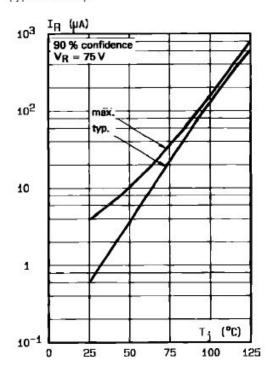


Fig. 2: Forward current versus forward voltage (typical values).

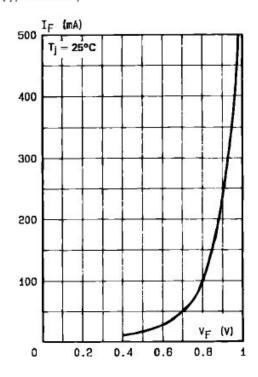
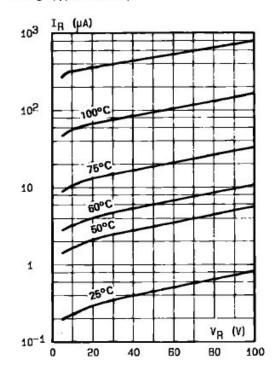


Fig. 4: Reverse current versus continuous reverse voltage (typical values).

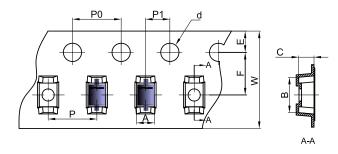


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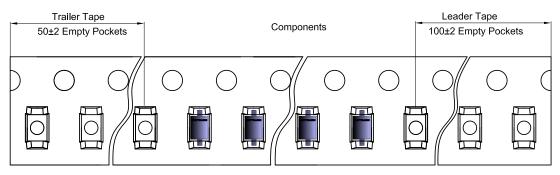
SOD-323 Tape and Reel

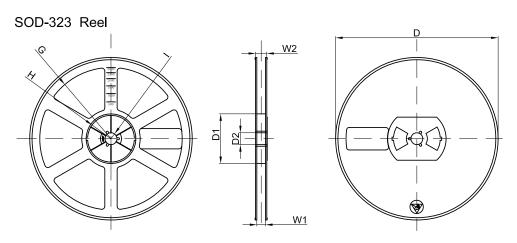
SOD-323 Embossed Carrier Tape



Dimensions are in millimeter										
Pkg type	Pkg type A B C d E F P0 P P1 W						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





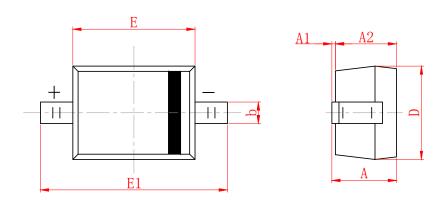
	Dimensions are in millimeter							
Reel Option	D	D1	D2	G	Н	Į	W1	W2
7"D i a	Ø178.00	54.40	13.00	R78.00	R25.60	R6.50	9.50	12.30

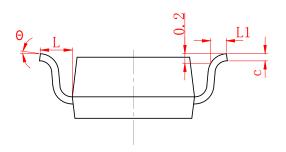
REEL	Reel Size	Вох	Box Size(mm)	Carton	Carton Size(mm)	G.W.(kg)
3000 pcs	7 inch	45,000 pcs	203×203×195	180,000 pcs	438×438×220	

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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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