

## SILICON EPITAXIAL PLANAR SCHOTTKY BARRIER DIODE

#### PINNING

PIN	DESCRIPTION			
1	Cathode			
2	Anode			

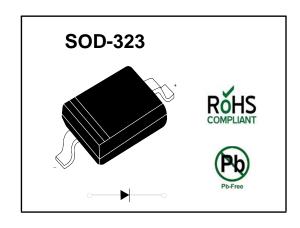
#### **Features**

- Small surface mounting type
- High reliability

# **Applications**

• Low current rectification

MARKING:S7



Absolute Maximum Ratings (T<sub>a</sub> = 25 °C)

Parameter	Symbol	Value	Unit
Peak Reverse Voltage	$V_{RM}$	45	V
Reverse Voltage	$V_R$	40	V
Mean Rectifying Current	Io	0.1	А
Peak Forward Surge Current (60 Hz for 1 Cyc.)	I <sub>FSM</sub>	1	А
Junction Temperature	T <sub>j</sub>	125	°C
Storage Temperature Range	T <sub>stg</sub>	- 40 to + 125	°C

## Characteristics at T<sub>a</sub> = 25 °C

Parameter	Symbol	Тур.	Max.	Unit
Forward Voltage at I <sub>F</sub> = 100 mA at I <sub>F</sub> = 10 mA	V <sub>F</sub> V <sub>F</sub>		0.55 0.34	V V
Reverse Current at V <sub>R</sub> = 10 V	I <sub>R</sub>	1	30	μΑ
Capacitance Between Terminals at $V_R = 10 \text{ V}$ , $f = 1 \text{ MHz}$	Ст	6	-	pF

Note: ESD sensitive product handling required.

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### **Typical Characteristics**

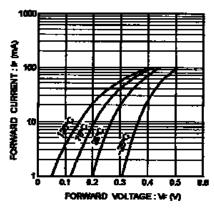


Fig. 1 Forward characteristics

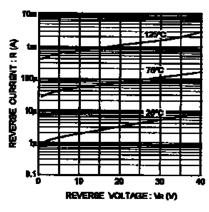


Fig. 2 Reverse characteristics

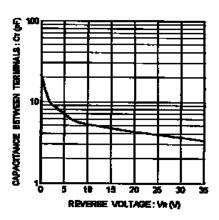


Fig. 3 Capacitance between terminals characteristics

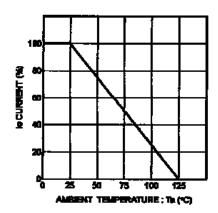


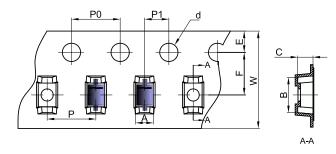
Fig. 4 Denating curve (mounting on glass epoxy PCBs)

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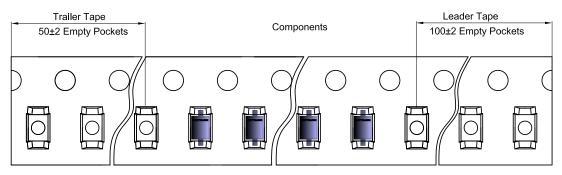
### SOD-323 Tape and Reel

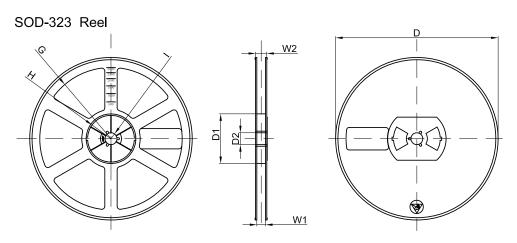
#### SOD-323 Embossed Carrier Tape



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





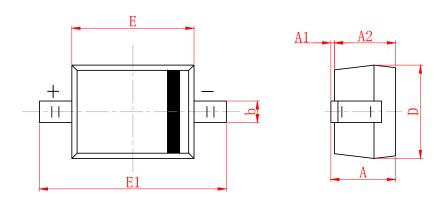
Dimensions are in millimeter								
Reel Option	Reel Option         D         D1         D2         G         H         I         W1         W2					W2		
7"Dia	Ø178.00	54.40	13.00	R78.00	R25.60	R6.50	9.50	12.30

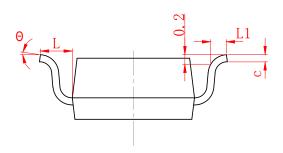
REEL	Reel Size	Вох	Box Size(mm)	Carton	Carton Size(mm)	G.W.(kg)
3000 pcs	7 inch	45,000 pcs	203×203×195	180,000 pcs	438×438×220	

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#### **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 (REF)			
L1	0. 250	0.400		
θ	0°	8°		

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