

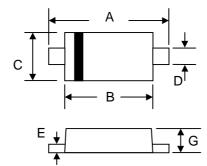
SD103AWS – SD103CWS Rohs



SURFACE MOUNT SCHOTTKY BARRIER DIODE

Features

- Low Turn-on Voltage
- Fast Switching
- PN Junction Guard Ring for Transient and ESD Protection
- Designed for Surface Mount Application
- Plastic Material UL Recognition Flammability Classification 94V-O



SOD-323					
Dim	Min	Max			
Α	2.30	2.70			
В	1.75	1.95			
С	1.15	1.35			
D	0.25	0.35			
E	0.05	0.15			
G	0.70	0.95			
Н	0.30				
All Dimensions in mm					

Mechanical Data

Case: SOD-323, Molded Plastic

 Terminals: Plated Leads Solderable per MIL-STD-202, Method 208

Polarity: Cathode Band

Weight: 0.004 grams (approx.)

Marking: SD103AWS S6

SD103BWS S7 SD103CWS S8

Lead Free: For RoHS / Lead Free Version,
Add "-LF" Suffix to Part Number, See Page 4



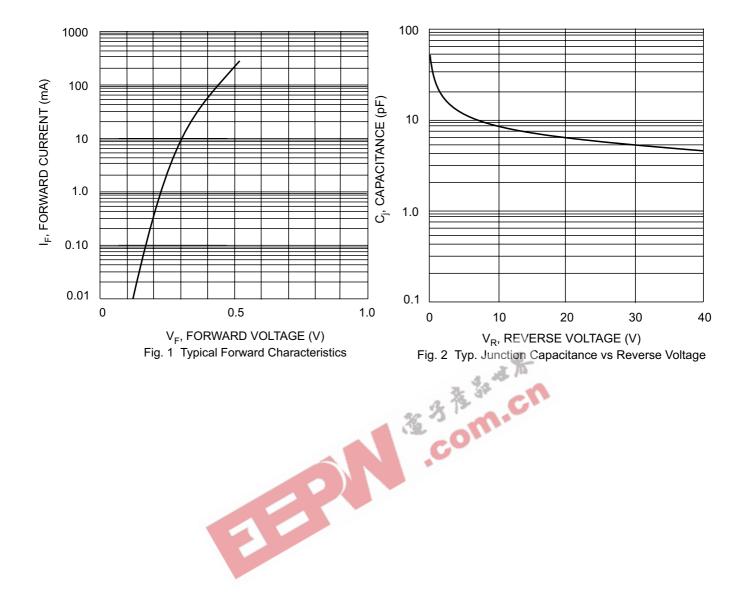
Maximum Ratings @T_A=25°C unless otherwise specified

Characteristic	Symbol	SD103AWS	SD103BWS	SD103CWS	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	40	30	20	V
Forward Continuous Current (Note 1)	lF	350			mA
Non-Repetitive Peak Forward Surge Current @ t < 1.0s	IFSM	2.0			Α
Power Dissipation (Note 1)	Pd	200			mW
Typical Thermal Resistance, Junction to Ambient Air (Note 1)	$R_{ heta}$ JA	625			°C/W
Operating and Storage Temperature Range	Тј, Тѕтс	-55 to +125			°C

Electrical Characteristics @T_A=25°C unless otherwise specified

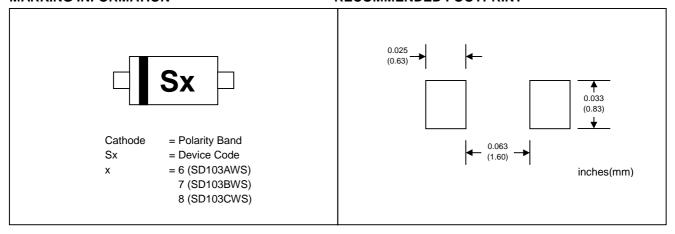
Characteristic		Symbol	All Types	Unit	Test Condition
Reverse Breakdown Voltage	SD103AWS SD103BWS SD103CWS	V(BR)R	40 30 20	V	@ IR = 10μA, tp < 300μS
Forward Voltage Drop		VFM	0.37 0.60	V	@ IF = 20mA @ IF = 200mA
Peak Reverse Leakage Current		lгм	5.0	μΑ	@ Rated DC Blocking Voltage
Typical Junction Capacitance		Cj	50	pF	$V_R = 0V, f = 1.0MHz$
Typical Reverse Recovery Time		trr	10	nS	$\begin{aligned} & \text{IF} = \text{IR} = 200\text{mA} \\ & \text{IRR} = 0.1 \text{ x IR, RL} = 100 \Omega \end{aligned}$

Note: 1. Valid provided that terminals are kept at ambient temperature.

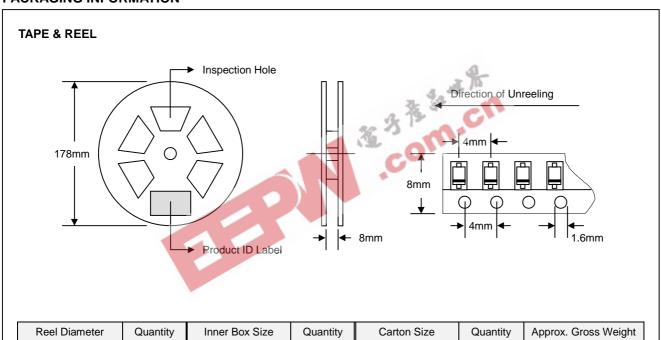


MARKING INFORMATION

RECOMMENDED FOOTPRINT



PACKAGING INFORMATION



Reel Diameter (mm)	Quantity (PCS)	Inner Box Size L x W x H (mm)	Quantity (PCS)	Carton Size L x W x H (mm)	Quantity (PCS)	Approx. Gross Weight (KG)
178	5,000	187 x 187 x 65	25,000	390 x 240 x 420	250,000	10.0

Note: 1. Anti-static plastic reel, white, water clear or blue color. Inspection hole might be varied in different alignment.

2. Components are packed in accordance with EIA standard 481-1 and 481-2.

ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
SD103AWS-T1	SOD-323	5000/Tape & Reel
SD103BWS-T1	SOD-323	5000/Tape & Reel
SD103CWS-T1	SOD-323	5000/Tape & Reel

- Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.
- To order RoHS / Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, SD103AWS-T1-LF.



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WARNING: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

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