

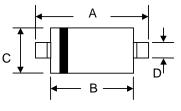
# **SD103AW − SD103CW** <sup>₹</sup><sub>RoHS</sub>

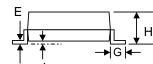


# SURFACE MOUNT SCHOTTKY BARRIER DIODE

#### **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-123				
Dim	Min	Max		
Α	3.6	3.9		
В	2.5	2.8		
С	1.4	1.8		
D	0.5	0.7		
E	_	0.2		
G	0.4	_		
Н	0.95	1.35		
J	_	0.12		
All Dimensions in mm				

# **Mechanical Data**

Case: SOD-123, Molded Plastic

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

Polarity: Cathode Band

Weight: 0.01 grams (approx.)

Marking: SD103AW S6

SD103BW S7 SD103CW S8

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

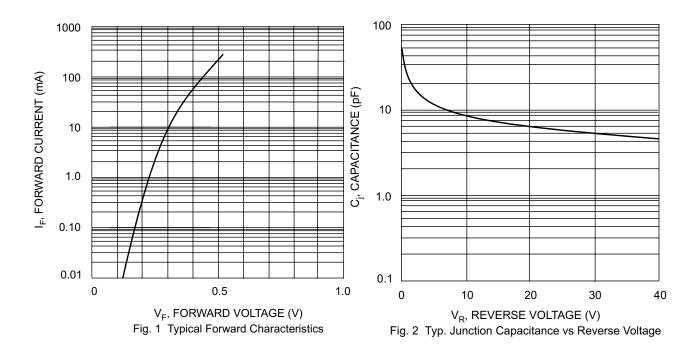
# 

Characteristic	Symbol	SD103AW	SD103BW	SD103CW	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	Pd	410		mW	
Typical Thermal Resistance, Junction to Ambient Air (Note 1)	$R_{\theta}$ JA	300		°C/W	
Operating and Storage Temperature Range	Tj, Tstg	-65 to +125			°C

# Electrical Characteristics @TA=25°C unless otherwise specified

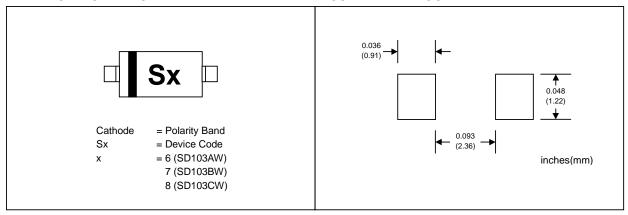
Characteristic	Symbol	All Types	Unit	Test Condition
Forward Voltage Drop	VFM	0.37 0.60	V	@ IF = 20mA @ IF = 200mA
Peak Reverse Leakage Current	IRM	5.0	μΑ	@ Rated DC Blocking Voltage
Typical Junction Capacitance	Cj	50	pF	V <sub>R</sub> = 0V, f = 1.0MHz
Typical Reverse Recovery Time	trr	10	nS	IF = IR = 50mA to 200mA IRR = $0.1 \times IR$ , RL = $100 \Omega$

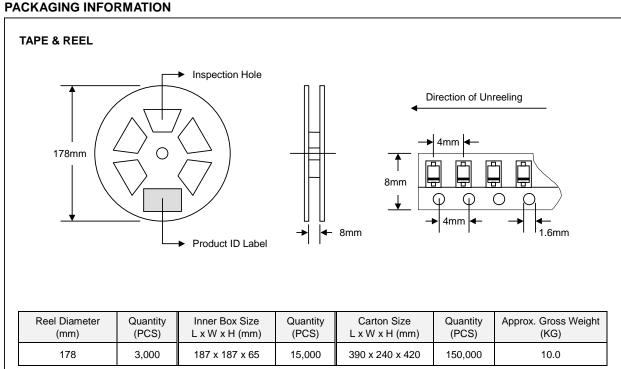
Note: 1. Valid provided that terminals are kept at ambient temperature.



## **MARKING INFORMATION**

## RECOMMENDED FOOTPRINT





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
SD103AW-T1	SOD-123	3000/Tape & Reel
SD103BW-T1	SOD-123	3000/Tape & Reel
SD103CW-T1	SOD-123	3000/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, SD103AW-T1-LF.

Won-Top Electronics Co., Ltd (WTE) has checked all information carefully and believes it to be correct and accurate. However, WTE cannot assume any responsibility for inaccuracies. Furthermore, this information does not give the purchaser of semiconductor devices any license under patent rights to manufacturer. WTE reserves the right to change any or all information herein without further notice.

**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.

Won-Top Electronics Co., Ltd.

No. 44 Yu Kang North 3rd Road, Chine Chen Dist., Kaohsiung, Taiwan

**Phone:** 886-7-822-5408 or 886-7-822-5410

Fax: 886-7-822-5417 Email: sales@wontop.com Internet: http://www.wontop.com

We power your everyday.