

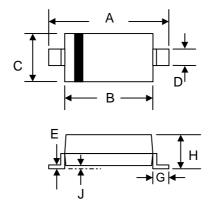
SD103AW − SD103CW [₹]_{ROHS}



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-123				
Dim	Min	Max		
Α	3.6	3.9		
В	2.5	2.8		
С	1.4	1.8		
D	0.5	0.7		
Е	_	0.2		
G	0.4	_		
H	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

> SD103BW S7

> SD103CW S8

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

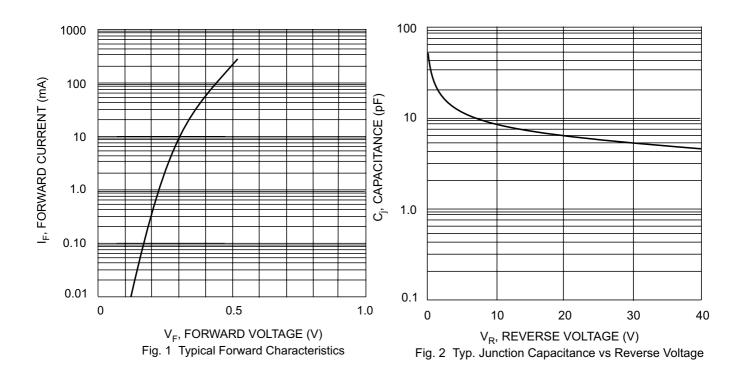
Maximum Ratings @T_A=25°C unless otherwise specified

Characteristic	Symbol	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	İFSM	2.0			Α
Power Dissipation	Pd	410		mW	
Typical Thermal Resistance, Junction to Ambient Air (Note 1)	$R_{ heta}$ JA	300		°C/W	
Operating and Storage Temperature Range	Tj, Tstg	-65 to +125			°C

Electrical Characteristics @T_A=25°C unless otherwise specified

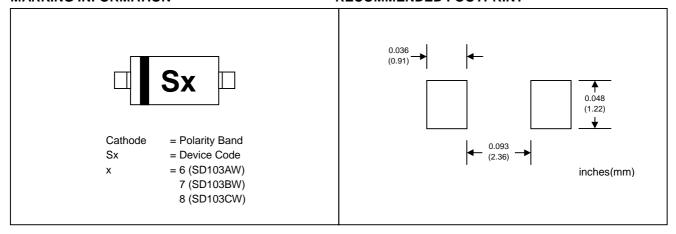
Characteristic	Symbol	All Types	Unit	Test Condition
Forward Voltage Drop	Vғм	0.37 0.60	٧	@ IF = 20mA @ IF = 200mA
Peak Reverse Leakage Current	IRM	5.0	μΑ	@ Rated DC Blocking Voltage
Typical Junction Capacitance	Cj	50	pF	$V_R = 0V, f = 1.0MHz$
Typical Reverse Recovery Time	trr	10	nS	IF = IR = 50mA to 200mA IRR = 0.1 x IR, RL = 100Ω

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

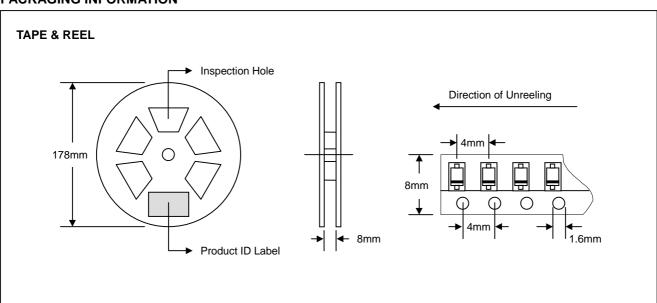


MARKING INFORMATION

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	3,000	187 x 187 x 65	15,000	390 x 240 x 420	150,000	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
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.

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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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