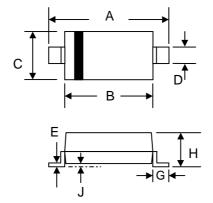


SD103AW - SD103CW

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 S6

SD103BW S7 SD103CW S8

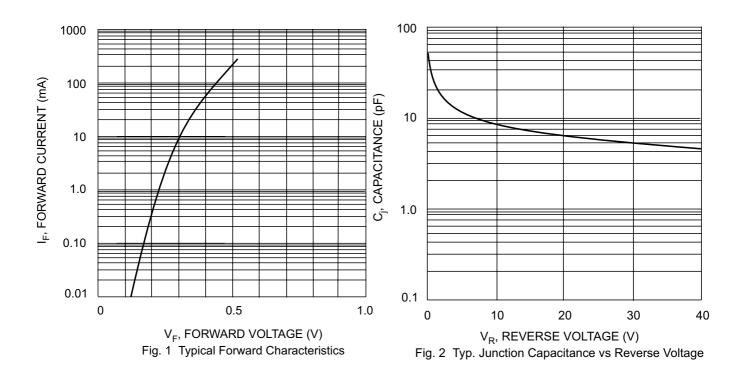
Maximum Ratings @T_A=25°C unless otherwise specified

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	400		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.



ORDERING INFORMATION

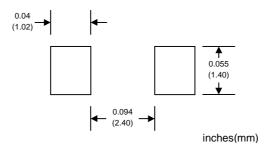
Product No.◆	Package Type	Shipping Quantity
SD103AW-T1	SOD-123	3000/Tape & Reel
SD103AW-T3	SOD-123	10000/Tape & Reel
SD103BW-T1	SOD-123	3000/Tape & Reel
SD103BW-T3	SOD-123	10000/Tape & Reel
SD103CW-T1	SOD-123	3000/Tape & Reel
SD103CW-T3	SOD-123	10000/Tape & Reel

Products listed in **bold** are WTE **Preferred** devices.

T1 suffix refers to a 7" reel. T3 suffix refers to a 13" reel.

Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.

RECOMMENDED FOOTPRINT



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.

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We power your everyday.