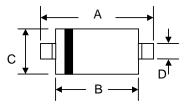


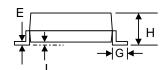
SD103AW - SD103CW

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	
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

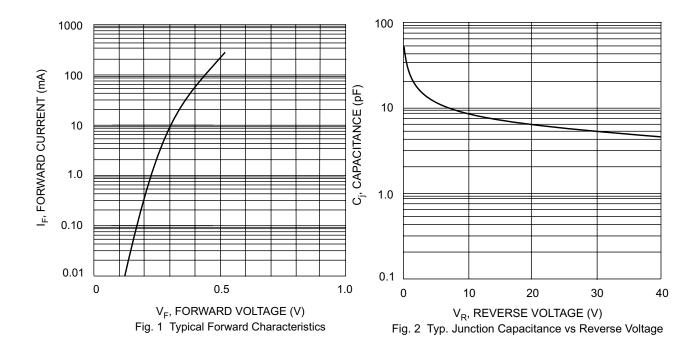
Maximum Ratings @T_A=25°C unless otherwise specified

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	IFSM		2.0		Α
Power Dissipation	Pd	400		mW	
Typical Thermal Resistance, Junction to Ambient Air (Note 1)	R_{θ} JA	300		°C/W	
Operating and Storage Temperature Range	Тј, Тѕтс	-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	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	IF = IR = 50mA to 200mA IRR = 0.1 x IR, RL = 100Ω

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

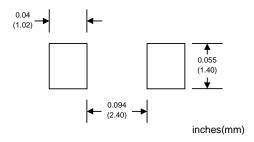


ORDERING INFORMATION

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

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

RECOMMENDED FOOTPRINT



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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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We power your everyday.

Products listed in **bold** are WTE **Preferred** devices. *T1 suffix refers to a 7" reel. T3 suffix refers to a 13" reel.