

SD103AW - SD103CW

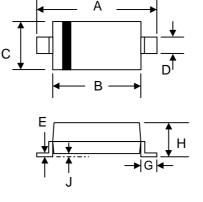
SURFACE MOUNT SCHOTTKY BARRIER DIODE

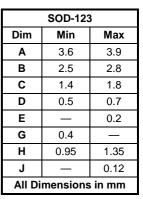
Features

- 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

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







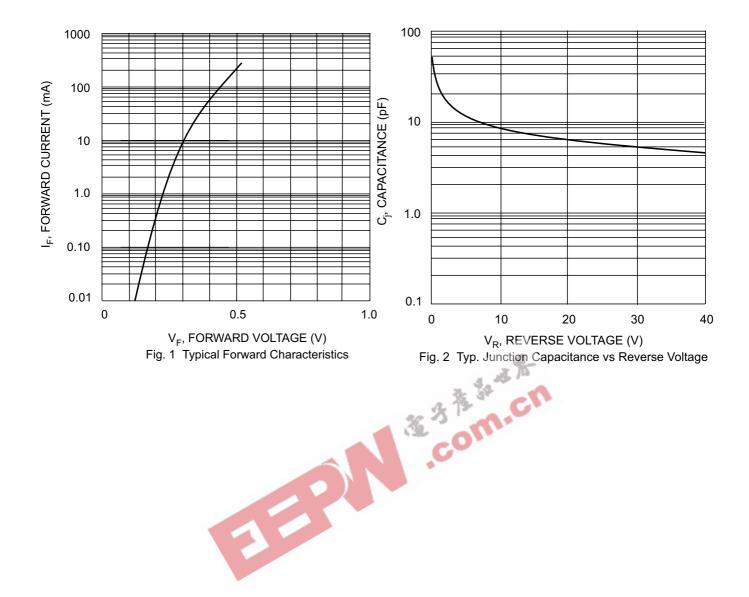
Maximum Ratings @T_A=25°C unless otherwise specified

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		А	
Power Dissipation	Pd	400		mW	
Typical Thermal Resistance, Junction to Ambient Air (Note 1)	RθJA	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	Vгм	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	$V_{R} = 0V, f = 1.0MHz$	
Typical Reverse Recovery Time	trr	10	nS	IF = IR = 50mA to 200mA IRR = 0.1 x IR, RL = 100Ω	

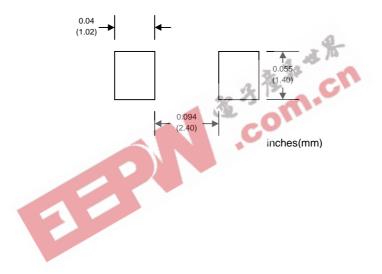
Note: 1. Valid provided that terminals are kept at ambient temperature.



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



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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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