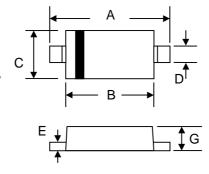


SD103AWS - SD103CWS

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-323				
Dim	Min	Max		
Α	2.30	2.70		
В	1.75	1.95		
С	1.15	1.35		
D	0.25	0.35		
E	0.05	0.15		
G	0.70	0.95		
H	0.30			
All Dimensions in mm				

Mechanical Data

Case: SOD-323, Molded Plastic

Terminals: Plated Leads Solderable per

MIL-STD-202, Method 208

Polarity: Cathode Band

Weight: 0.004 grams (approx.)

Marking: SD103AWS S6

SD103BWS S7 SD103CWS S8

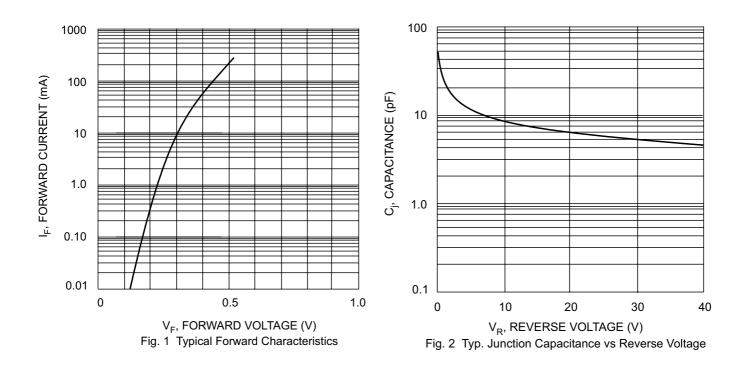
Maximum Ratings @T_A=25°C unless otherwise specified

Characteristic	Symbol	SD103AWS	SD103BWS	SD103CWS	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 (Note 1)	Pd	200		mW	
Typical Thermal Resistance, Junction to Ambient Air (Note 1)	$R_{ heta}$ JA	625			°C/W
Operating and Storage Temperature Range	Тj, Тsтg	-55 to +150			°C

Electrical Characteristics @T_A=25°C unless otherwise specified

Characteristic		Symbol	All Types	Unit	Test Condition
Reverse Breakdown Voltage	SD103AWS SD103BWS SD103CWS	V(BR)R	40 30 20	V	@ IR = 10μA, tp < 300μS
Forward Voltage Drop		Vғм	0.37 0.60	V	@ 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	$\begin{aligned} \text{IF} &= \text{IR} = 200 \text{mA} \\ \text{IRR} &= 0.1 \text{ x IR, RL} = 100 \Omega \end{aligned}$

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



ORDERING INFORMATION

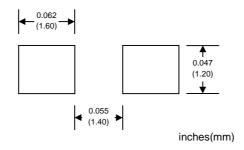
Product No.◆	Package Type	Shipping Quantity
SD103AWS-T1	SOD-323	5000/Tape & Reel
SD103AWS-T3	SOD-323	10000/Tape & Reel
SD103BWS-T1	SOD-323	5000/Tape & Reel
SD103BWS-T3	SOD-323	10000/Tape & Reel
SD103CWS-T1	SOD-323	5000/Tape & Reel
SD103CWS-T3	SOD-323	10000/Tape & Reel

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.