

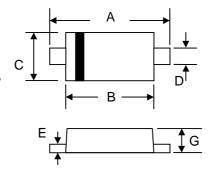
SD101AWS - SD101CWS Rohs



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-323				
Dim	Min	Max		
Α	2.30	2.70		
В	1.75	1.95		
С	1.15	1.35		
D	0.25	0.35		
Е	0.05	0.15		
G	0.70	0.95		
Н	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: SD101AWS S2

SD101BWS S3 SD101CWS S4

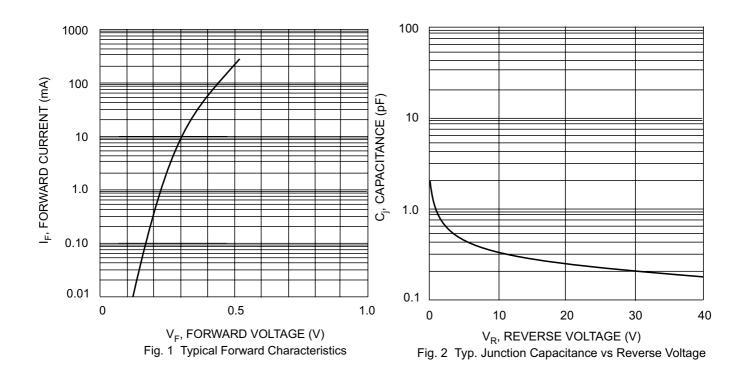
Lead Free: For RoHS / Lead Free Version,
Add "-LF" Suffix to Part Number, See Page 4

Characteristic	Symbol	SD101AWS	SD101BWS	SD101CWS	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	60	50	40	V
Forward Continuous Current (Note 1)	lF	15			mA
Non-Repetitive Peak Forward Surge Current @ t = 10µs	İFSM	2.0		Α	
Power Dissipation	Pd	200		mW	
Typical Thermal Resistance, Junction to Ambient Air (Note 1)	$R_{ heta}$ JA	625		°C/W	
Operating and Storage Temperature Range	Tj, Tstg	-65 to +125			°C

Electrical Characteristics @T_A=25°C unless otherwise specified

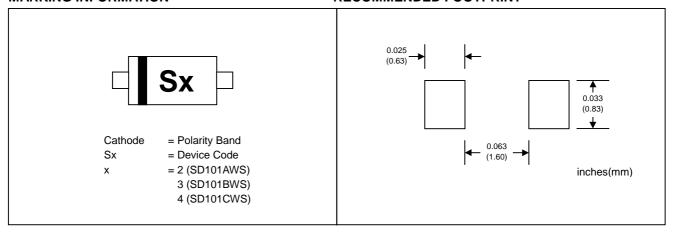
Characteristic		Symbol	SD101AWS	SD101BWS	SD101CWS	Unit
Forward Voltage Drop	@ IF = 1.0mA @ IF = 15mA	Vғм	0.41 1.00	0.40 0.95	0.39 0.90	V
Peak Reverse Leakage Current @ 80% DC Blocking Voltage		IRM	200			nA
Total Junction Capacitance	@ $V_R = 0V$, $f = 1.0MHz$	Ст	2.0	2.1	2.2	pF
Typical Reverse Recovery Time @	IF = IR = 50mA , IRR = $0.1 \times IR$, RL = 100Ω	trr		1.0		nS

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

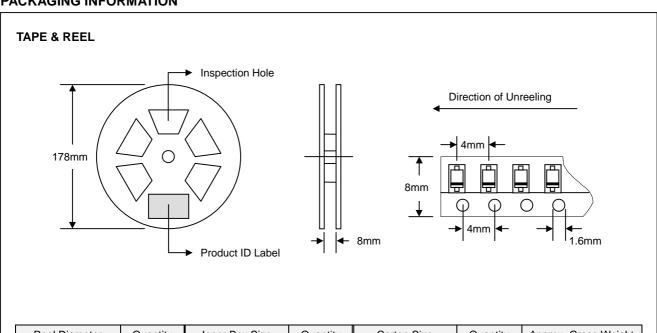


MARKING INFORMATION

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	5,000	187 x 187 x 65	25,000	390 x 240 x 420	250,000	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		
SD101AWS-T1	SOD-323	5000/Tape & Reel		
SD101BWS-T1	SOD-323	5000/Tape & Reel		
SD101CWS-T1	SOD-323	5000/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, SD101AWS-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.

Won-Top Electronics Co., Ltd.

No. 44 Yu Kang North 3rd Road, Chine Chen Dist., Kaohsiung, Taiwan

Phone: 886-7-822-5408 or 886-7-822-5410

Fax: 886-7-822-5417 Email: sales@wontop.com Internet: http://www.wontop.com

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