

SD101AW – SD101CW

Α

В

SURFACE MOUNT SCHOTTKY BARRIER DIODE

D

Pb

Max

3.9

2.8

1.8

0.7

0.2

1.35

0.12

SOD-123

Min

3.6

2.5

1.4

0.5

0.4

0.95

All Dimensions in mm

Dim

Α

в

С

D

Ε

G

н

J

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



- Case: SOD-123, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 0.01 grams (approx.)
- Marking: SD101AW S2
 - SD101BW S3 SD101CW S4
- Lead Free: For RoHS / Lead Free Version, Add "-LF" Suffix to Part Number, See Page 4

Maximum Ratings @T_A=25°C unless otherwise specified

Characteristic	Symbol	SD101AW	SD101BW	SD101CW	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	IFSM	2.0		А	
Power Dissipation	Pd	410		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	

C

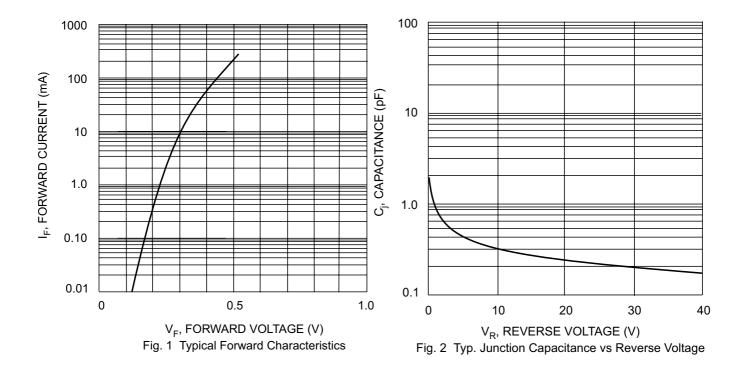
Е

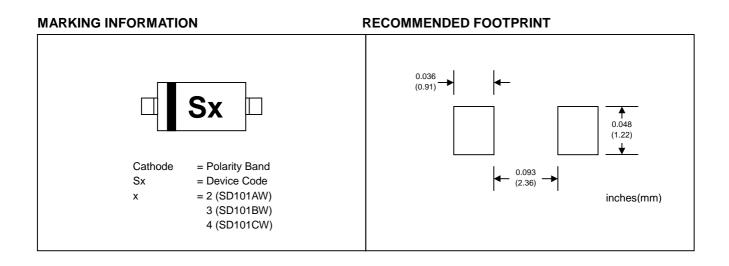
Electrical Characteristics $@T_A=25^{\circ}C$ unless otherwise specified

Characteristic		Symbol	SD101AW	SD101BW	SD101CW	Unit
Forward Voltage Drop	@ IF = 1.0mA @ IF = 15mA	Vгм	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 x IR, RL = 100 Ω	trr		1.0		nS

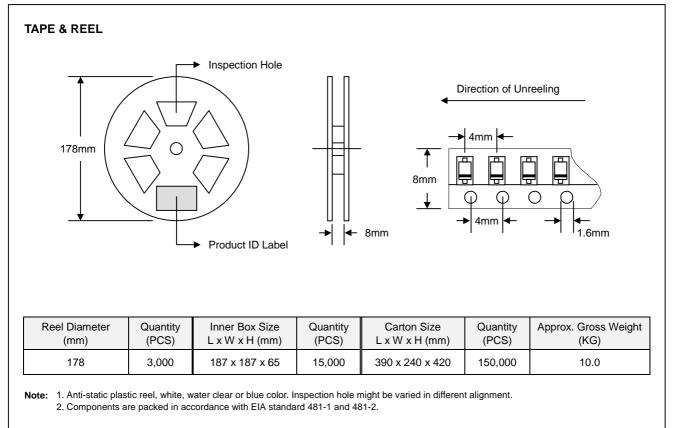
Note: 1. Valid provided that terminals are kept at ambient temperature.

SD101AW - SD101CW





PACKAGING INFORMATION



ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
SD101AW-T1	SOD-123	3000/Tape & Reel
SD101BW-T1	SOD-123	3000/Tape & Reel
SD101CW-T1	SOD-123	3000/Tape & Reel

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

2. To order RoHS / Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, SD101AW-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.

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We power your everyday.

 ${\rm SD101AW-SD101CW}$

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