

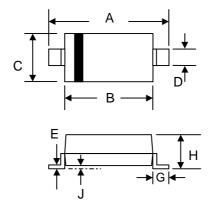
SD101AW − **SD101CW** [₹]_{ROHS}



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-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

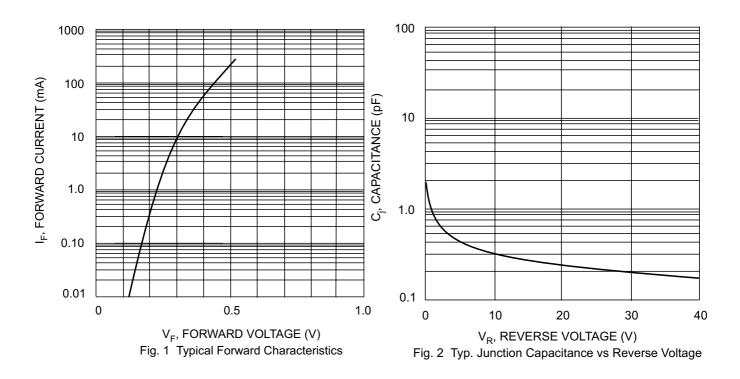
- Case: SOD-123, Molded Plastic
- Terminals: Plated Leads Solderable per
 - MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 0.01 grams (approx.)
- Marking: SD101AW
 - SD101BW **S**3 SD101CW S4
- Lead Free: For RoHS / Lead Free Version, Add "-LF" Suffix to Part Number, See Page 4

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	İFSM		2.0		Α
Power Dissipation	Pd	410		mW	
Typical Thermal Resistance, Junction to Ambient Air (Note 1)	$R_{ heta}$ JA	300		°C/W	
Operating and Storage Temperature Range	Tj, Tstg	-65 to +125			°C

Electrical Characteristics @T_A=25°C unless otherwise specified

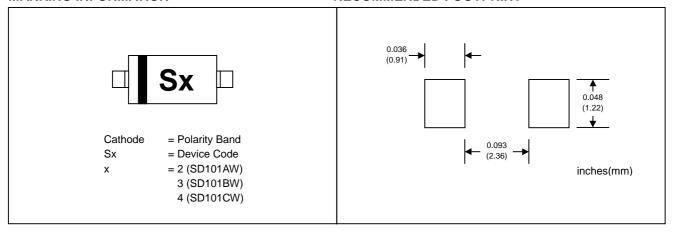
Characteristic		Symbol	SD101AW	SD101BW	SD101CW	Unit
Forward Voltage Drop	@ IF = 1.0mA @ IF = 15mA	VFM	0.41 1.00	0.40 0.95	0.39 0.90	V
Peak Reverse Leakage Current @ 80% DC Blocking Voltage		IRM	200			nA
Total Junction Capacitance	@ V _R = 0V, f = 1.0MHz	Ст	2.0	2.1	2.2	pF
Typical Reverse Recovery Time @ $\frac{\text{IF} = \text{IR} = 50\text{mA}}{\text{IRR} = 0.1 \text{ x IR}, \text{ RL} = 100 \Omega}$		trr		1.0		nS

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

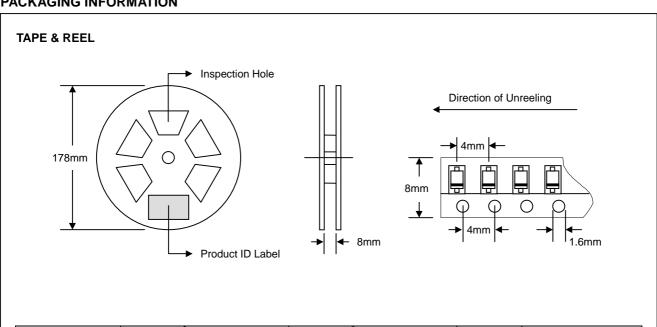


MARKING INFORMATION

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	3,000	187 x 187 x 65	15,000	390 x 240 x 420	150,000	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		
SD101AW-T1	SOD-123	3000/Tape & Reel		
SD101BW-T1	SOD-123	3000/Tape & Reel		
SD101CW-T1	SOD-123	3000/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, 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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