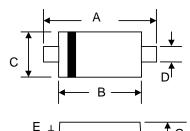




SURFACE MOUNT FAST SWITCHING DIODE

Features

- High Conductance
- Fast Switching Speed
- Surface Mount Package Ideally Suited for Automatic Insertion
- For General Purpose Switching 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: A3
- 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

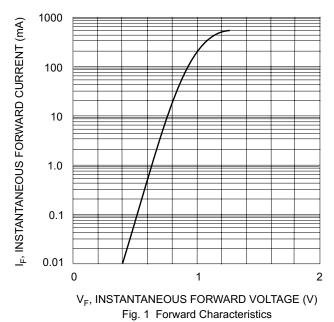
Characteristic	Symbol	1N4448WS	Unit
Non-Repetitive Peak Reverse Voltage	VRM	100	V
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	75	V
RMS Reverse Voltage	VR(RMS)	53	V
Forward Continuous Current (Note 1)	lғм	500	mA
Average Rectified Output Current (Note 1)	lo	250	mA
	= 1.0µs = 1.0s	4.0 2.0	А
Power Dissipation (Note 1)	Pd	200	mW
Typical Thermal Resistance, Junction to Ambient Air (Note 1) R θ JA	625	K/W
Operating and Storage Temperature Range	Тj, Тsтg	-65 to +150	°C

Electrical Characteristics @T_A=25°C unless otherwise specified

Characteristic		Symbol	1N4448WS	Unit
Forward Voltage Drop	@ IF = 5.0mA @ IF = 100mA	VFM	0.72 1.0	V
Peak Reverse Leakage Current	@ VR = 75V	IRM	2.5	μA
Junction Capacitance (VR = 0V DC, f = 1.0MHz)		Cj	4.0	pF
Reverse Recovery Time (Note 2)		trr	4.0	nS

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

2. Measured with IF = IR = 10mA, IRR = 0.1 x IR, RL = 100Ω .

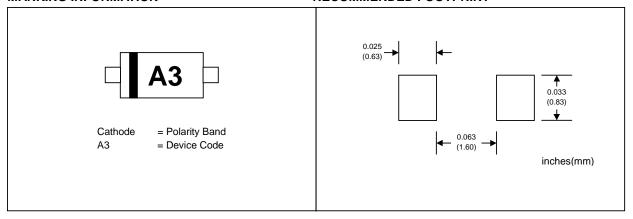


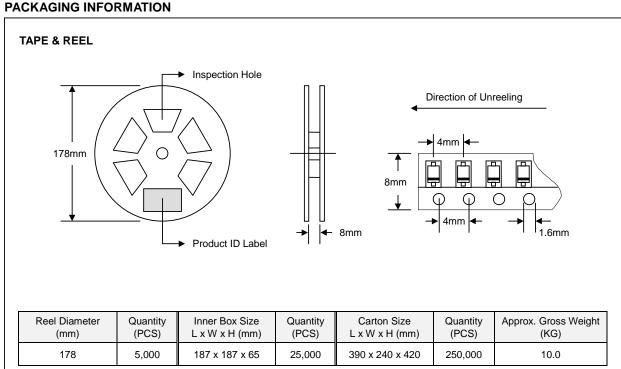
10,000 PARENT (JP) 1000 PROPERTY (JP) 100 PROPET

 T_{j} , JUNCTION TEMPERATURE (°C) Fig. 2 Leakage Current vs Junction Temperature

MARKING INFORMATION

RECOMMENDED FOOTPRINT





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
1N4448WS-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, 1N4448WS-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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