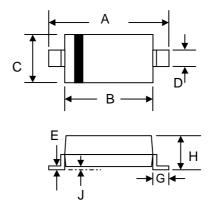




SURFACE MOUNT FAST SWITCHING DIODE

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-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	_		
H	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: 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	1N4448W	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	500	mW
Typical Thermal Resistance, Junction to Ambient Air (N	Note 1) R θ JA	357	K/W
Operating and Storage Temperature Range	Тj, Тsтg	-65 to +150	°C

1N4448W 1 of 4 © 2006 Won-Top Electronics

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Electrical Characteristics @T_A=25°C unless otherwise specified

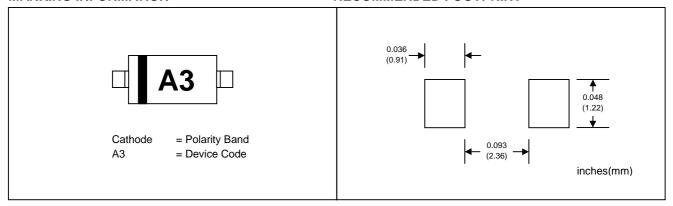
Characteristic		Symbol	1N4448W	Unit
Forward Voltage Drop	@ IF = 5mA @ IF = 10mA	Vғм	0.72 1.0	V
Peak Reverse Leakage Current	@ VR = 20V @ VR = 75V	lгм	25 5.0	nΑ μΑ
Typical Junction Capacitance (VR = 0V DC, f = 1.0MHz)		Cj	4.0	pF
Reverse Recovery Time (Note 2)		trr	4.0	nS

Note: 1. Valid provided that terminals are kept at ambient temperature. 2. Measured with IF = IR = 10mA, IRR = 0.1 x IR, RL = $100\,\Omega$.

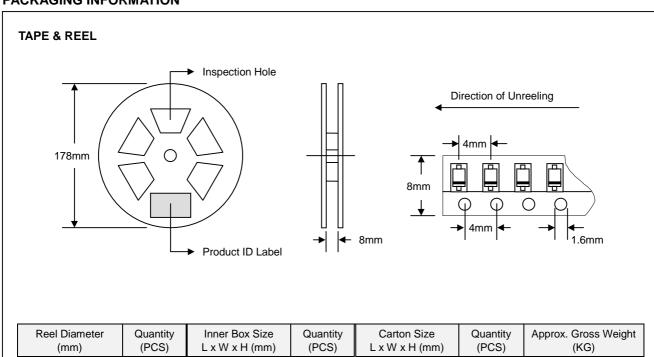
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MARKING INFORMATION

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.

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ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity		
1N4448W-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.

 To order RoHS / Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, 1N4448W-T1-LF. 2.

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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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