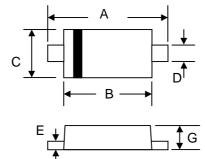




SURFACE MOUNT FAST SWITCHING DIODE

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	
E	E 0.05 0.		
G	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: A2

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	1N4148WS	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)	Iғм	300	mA
Average Rectified Output Current (Note 1)	lo	150	mA
Non-Repetitive Peak Forward Surge Current @ t = 1.0 @ t = 1.1	' I IESM	2.0 1.0	А
Power Dissipation (Note 1)	Pd	200	mW
Typical Thermal Resistance, Junction to Ambient Air (Note	e 1) R <i>θ</i> JA	625	K/W
Operating and Storage Temperature Range	Тj, Тsтg	-65 to +150	°C

1N4148WS 1 of 4 © 2006 Won-Top Electronics

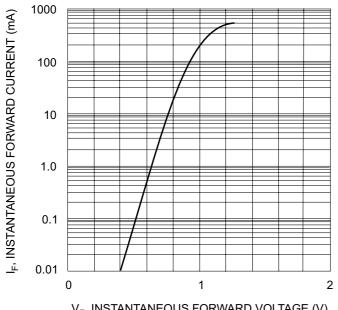
Fax: 02-25215390 極利企業有限公司 Tel: 02-25651052

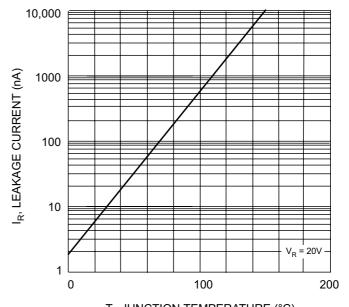
Electrical Characteristics @T_A=25°C unless otherwise specified

Characteristic		Symbol	1N4148WS	Unit
Forward Voltage Drop	@ IF = 10mA	VFM	1.0	V
Peak Reverse Leakage Current	@ VR = 75V	lгм	2.5	μΑ
Junction Capacitance (VR = 0V DC, f = 1.0MHz)		Cj	2.0	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 Ω .





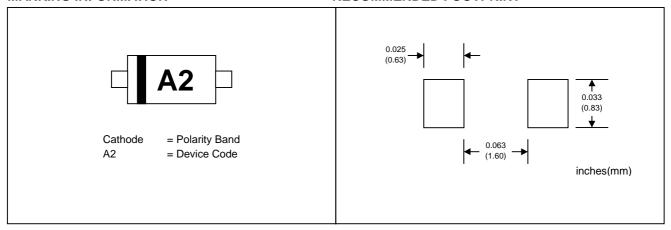
V_F, INSTANTANEOUS FORWARD VOLTAGE (V) Fig. 1 Forward Characteristics

T_j, JUNCTION TEMPERATURE (°C) Fig. 2 Leakage Current vs Junction Temperature

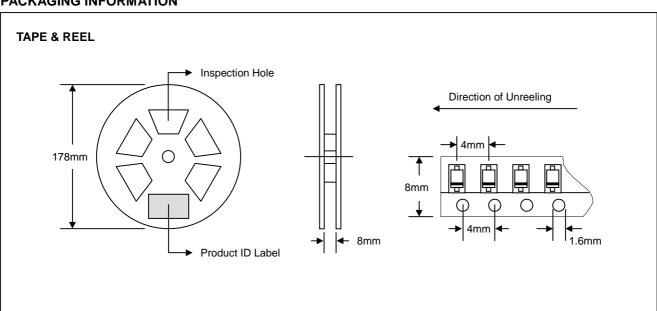
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MARKING INFORMATION

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	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.

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ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
1N4148WS-T1	SOD-323	5000/Tape & Reel

- Shipping quantity given is for minimum packing quantity only. For minimum 1.
- 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, 1N4148WS-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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