



Dim

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J

SOD-123

Min

3.6

2.5

1.4

0.5

0.4

0.95

All Dimensions in mm

Max 3.9

2.8

1.8 0.7

0.2

1.35

0.12

SURFACE MOUNT FAST SWITCHING DIODE

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- B

Features

- High Conductance
- Fast Switching SpeedSurface Mount Package Ideally Suited for
- Automatic Insertion
- For General Purpose Switching 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: 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	1N4148W	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)	lfм	300	mA
Average Rectified Output Current (Note 1)	lo	150	mA
Non-Repetitive Peak Forward Surge Current @ t = 1.0µs @ t = 1.0s	IFSM	2.0 1.0	А
Power Dissipation (Note 1)	Pd	410	mW
Typical Thermal Resistance, Junction to Ambient Air (Note 1)	RθJA	315	K/W
Operating and Storage Temperature Range	Tj, TSTG	-65 to +150	°C

С

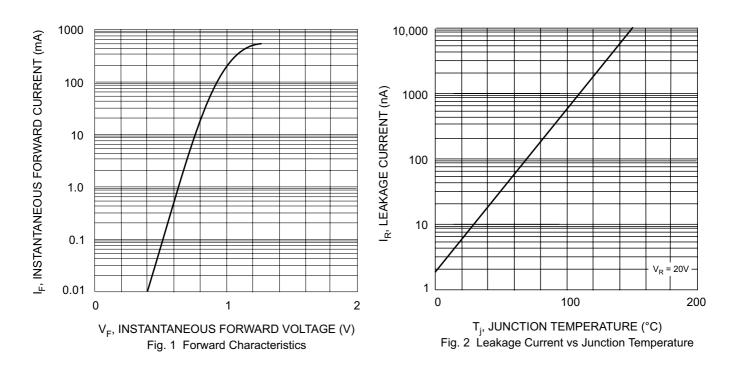
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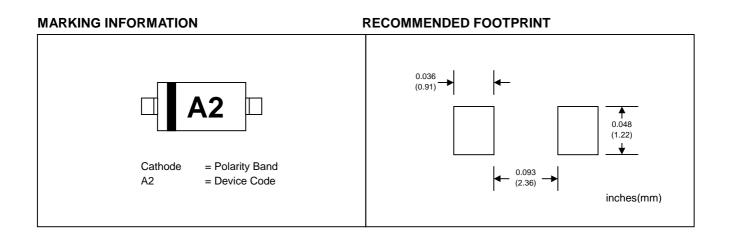
Electrical Characteristics $@T_A=25^{\circ}C$ unless otherwise specified

Characteristic		Symbol	1N4148W	Unit
Forward Voltage Drop	@ IF = 10mA	Vfm	1.0	V
Peak Reverse Leakage Current	@ VR = 20V @ VR = 75V	Iгм	25 5.0	nA μA
Typical Junction Capacitance (VR = 0V DC, f = 1.0MHz)		Cj	2.0	pF
Reverse Recovery Time (Note 2)		trr	4.0	nS

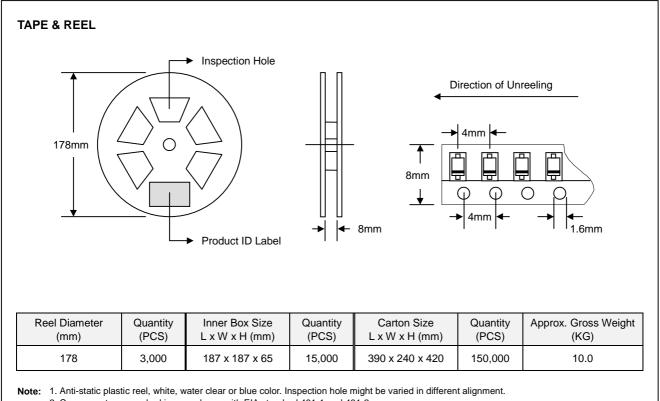
Note: 1. Valid provided that terminals are kept at ambient temperature.

2. Measured with IF = IR = 10mA, IRR = 0.1 x IR, RL = 100 $\Omega.$





PACKAGING INFORMATION



2. Components are packed in accordance with EIA standard 481-1 and 481-2.

ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
1N4148W-T1	SOD-123	3000/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, 1N4148W-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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