

1N4148W

SOD-123

Max

3.9

2.8

1.8

0.7

0.2

_

1.35

0.12

Min

3.6

2.5

1.4

0.5

0.4

0.95

All Dimensions in mm

Dim

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SURFACE MOUNT FAST SWITCHING DIODE

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Features

- High Conductance
- Fast Switching SpeedSurface Mount Package Ideally Suited for
- Automatic Insertion
 For General Purpose Switching Application
- Por General Purpose Switching Application
 Plastic Material UL Recognition Flammability
- Classification 94V-O

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: A2

Maximum Ratings $@T_A=25^{\circ}C$ unless otherwise specified

Characteristic	Symbol	Value	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)	IFM	300	mA
Average Rectified Output Current (Note 1)	lo	150	mA
Non-Repetitive Peak Forward Surge Current @ t = 1.0µs @ t = 1.0s	IESM	2.0 1.0	А
Power Dissipation (Note 1)	Pd	410	mW
Typical Thermal Resistance, Junction to Ambient Air (Note 1) R <i>θ</i> ја	315	K/W
Operating and Storage Temperature Range	Тj, Tsтg	-65 to +150	°C

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Electrical Characteristics @T_A=25°C unless otherwise specified

Characteristic		Symbol	Value	Unit
Forward Voltage Drop	@ IF = 10mA	Vfm	1.0	V
Peak Reverse Leakage Current	@ VR = 20V @ VR = 75V	I RM	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 $\Omega.$



ORDERING INFORMATION

Product No.+	Package Type	Shipping Quantity	
1N4148W-T1	SOD-123	3000/Tape & Reel	
1N4148W-T3	SOD-123	10000/Tape & Reel	

Products listed in **bold** are WTE **Preferred** devices. *T1 suffix refers to a 7" reel. T3 suffix refers to a 13" reel.

Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.

RECOMMENDED FOOTPRINT



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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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