

# 1N4448W

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

Α

в

С

D

Ε

G

н

J

# SURFACE MOUNT FAST SWITCHING DIODE

Л

А

- B

### 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

### **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

### **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)		lгм	500	mA
Average Rectified Output Current (Note 1)		lo	250	mA
Non-Repetitive Peak Forward Surge Current	@ t = 1.0µs @ t = 1.0s	IFSM	4.0 2.0	А
Power Dissipation (Note 1)		Pd	500	mW
Typical Thermal Resistance, Junction to Ambient Air (Note 1)		RθJA	357	K/W
Operating and Storage Temperature Range		Тj, Tsтg	-65 to +150	°C

С

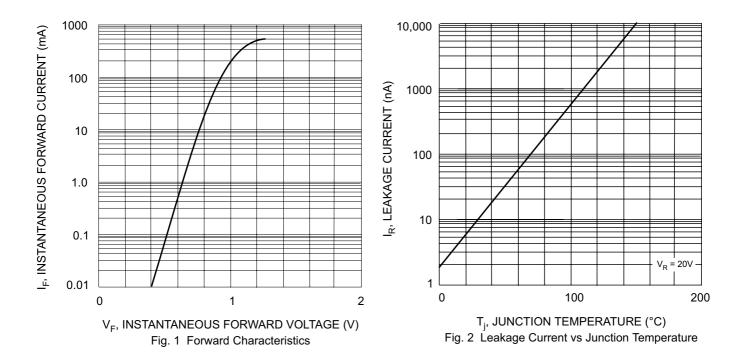
E

## Electrical Characteristics @T<sub>A</sub>=25°C unless otherwise specified

Characteristic		Symbol	Value	Unit
Forward Voltage Drop	@ IF = 5mA @ IF = 10mA	Vгм	0.72 1.0	V
Peak Reverse Leakage Current	@ VR = 20V @ VR = 75V	IRM	25 5.0	nA µA
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  $\Omega$  .



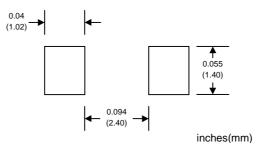
#### ORDERING INFORMATION

Product No.+	Package Type	Shipping Quantity	
1N4448W-T1	SOD-123	3000/Tape & Reel	
1N4448W-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**



Won-Top Electronics Co., Ltd (WTE) has checked all information carefully and believes it to be correct and accurate. However, WTE cannot assume any responsibility for inaccuracies. Furthermore, this information does not give the purchaser of semiconductor devices any license under patent rights to manufacturer. WTE reserves the right to change any or all information herein without further notice.

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.

Won-Top Electronics Co., Ltd. No. 44 Yu Kang North 3rd Road, Chine Chen Dist., Kaohsiung, Taiwan Phone: 886-7-822-5408 or 886-7-822-5410 Fax: 886-7-822-5417 Email: sales@wontop.com Internet: http://www.wontop.com

We power your everyday.