



DATA SHEET

1N4448W

SURFACE MOUNT SWITCHING DIODES

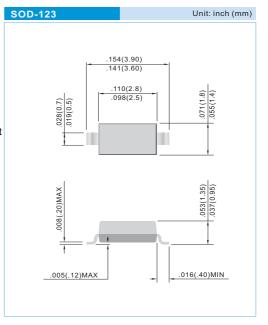
VOLTAGE 100 Volts POWER 500 mWatts

FEATURES

- Fast switching Speed.
- Electrically Identical to Standard JEDEC
- High Conductance
- Surface Mount Package Ideally Suited for Automatic Insertion.
- Pb free product are available : 99% Sn above can meet Rohs environment substance directive request

MECHANICAL DATA

- Case: SOD-123 plastic case.
- Terminals : Solderable per MIL-STD-750, Method 2026
- Standard packaging: 8mm tapeWeight: approximately 0.0104 g
- Marking: A3



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (TJ=25°C unless otherwise noted)

PARAMETER	SYMBOL	1 N 4 4 4 8 W	UNITS
Reverse Voltage	V R	75	V
Peak Reverse Voltage	VRM	100	V
RMS Voltage	VRMS	50	V
Maximum DC Blocking Voltage	VDC	75	v
Maximum Average Forward CurrentatTa=25°C	ΙΑV	150	m A
Peak Forward Surge Current, 1.0us	IFSM	4	A
Power Dissipation Derate Above 25°C	Ртот	500	m W
Maximum Forward Voltage	VF	0.72 / 0.005A 1.0 / 0.1A	V
Maximum DC Reverse Current at Rated DC B locking Voltage T_J = 25°C	I R	2.5@ 75V	uA
Junction Capacitance (Notes1)	СJ	4 .0	pF
Maximum Reverse Recovery (Notes2)	Trr	4 .0	ns
Maximum ThermalResistance	п θја	450	°C /W
S torage Temperature Range	Тл	-55 to +150	°C

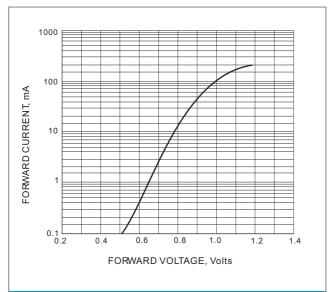
NOTE:

- 1. CJ at VR=0, f=1MHZ
- 2.From I_F=10mA to I_R=1mA, V_R=6Volts, R_L=100 Ω

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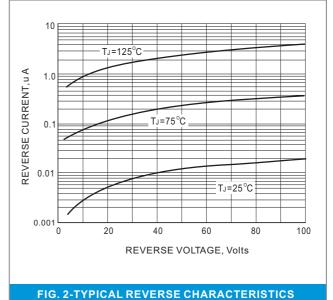


FIG. 1-TYPICAL FORWARD CHARACTERISTIC

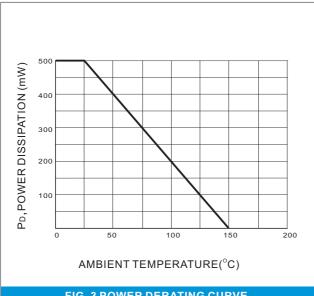


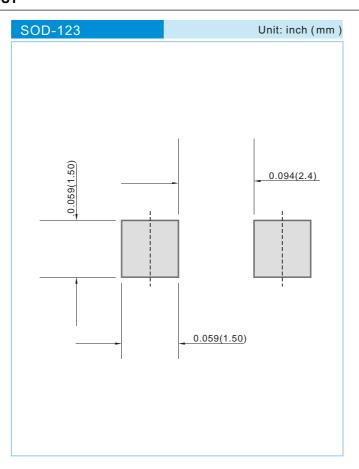
FIG. 3 POWER DERATING CURVE

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MOUNTING PAD LAYOUT



ORDER INFORMATION

· Packing information

T/R - 10K per 13" plastic Reel

T/R - 3.0K per 7" plastic Reel

LEGAL STATEMENT

IMPORTANT NOTICE

This information is intended to unambiguously characterize the product in order to facilitate the customer's evaluation of the device in the application. The information will help the customer's technical experts determine that the device is compatible and interchangeable with similar devices made by other vendors. The information in this data sheet is believed to be reliable and accurate. The specifications and information herein are subject to change without notice. New products and improvements in products and product characterization are constantly in process. Therefore, the factory should be consulted for the most recent information and for any special characteristics not described or specified.

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