

1N4448W

SURFACE MOUNT SWITCHING DIODES

VOLTAGE 100 Volts **POWER** 500mWatts

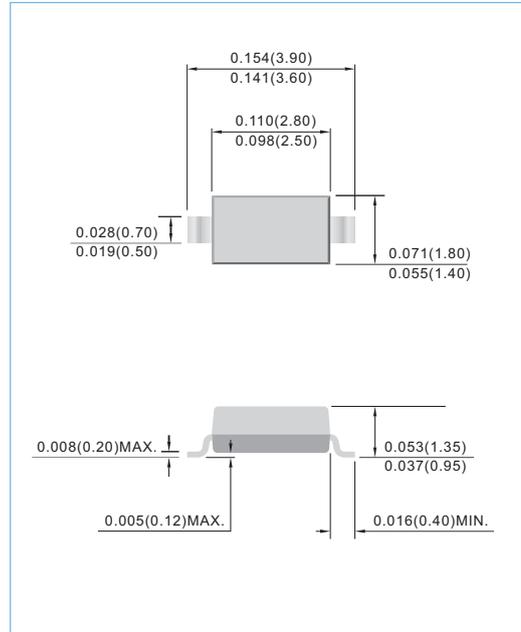
SOD-123 Unit : inch(mm)

FEATURES

- Fast switching Speed
- Electrically Identical to Standard JEDEC
- High Conductance
- Surface Mount Package Ideally Suited for Automatic Insertion
- Lead free in comply with EU RoHS 2011/65/EU directives.
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

- Case: SOD-123 plastic case.
- Terminals : Solderable per MIL-STD-750, Method 2026
- Standard packaging: 8mm tape
- Weight: approximately 0.0004 ounces, 0.01grams
- Marking Code: A3



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

PARAMETER	SYMBOL	1N4448W	UNITS
Reverse Voltage	V _R	75	V
Peak Reverse Voltage	V _{RM}	100	V
RMS Voltage	V _{RMS}	50	V
Forward Continuous	I _{FM}	500	mA
Maximum DC Blocking Voltage	V _{DC}	75	V
Maximum Average Forward Current at T _A =25°C	I _{F(AV)}	150	mA
Peak Forward Surge Current, 1.0us	I _{FSM}	4	A
Power Dissipation Derate Above 25°C	P _{TOT}	500	mW
Maximum Forward Voltage	V _F	0.72 / 0.005A 1.0 / 0.1A	V
Maximum DC Reverse Current at Rated DC Blocking Voltage T _J =25°C	I _R	2.5@75V	μA
Junction Capacitance(Note1)	C _J	4.0	pF
Maximum Reverse Recovery (Note2)	t _{rr}	4.0	ns
Typical Thermal Resistance	R _{θJA}	450	°C / W
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to +150	°C

NOTE:

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

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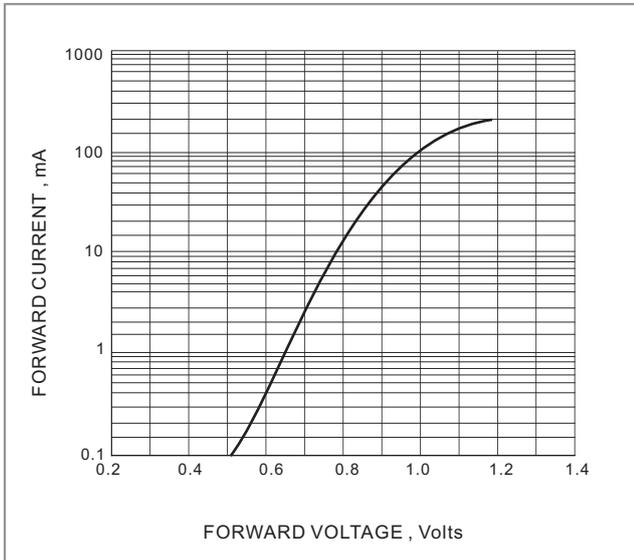


FIG. 1-TYPICAL FORWARD CHARACTERISTIC

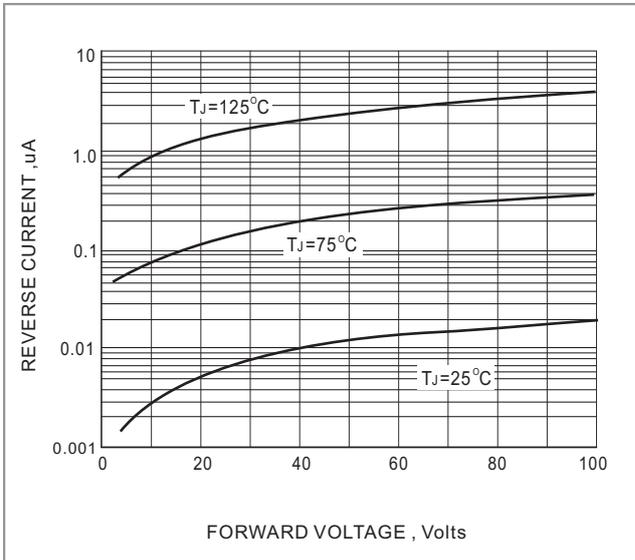


FIG. 2-TYPICAL REVERSE CHARACTERISTICS

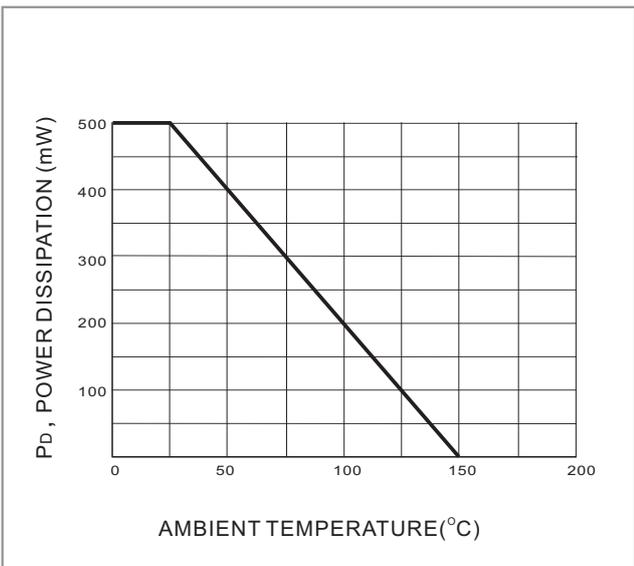
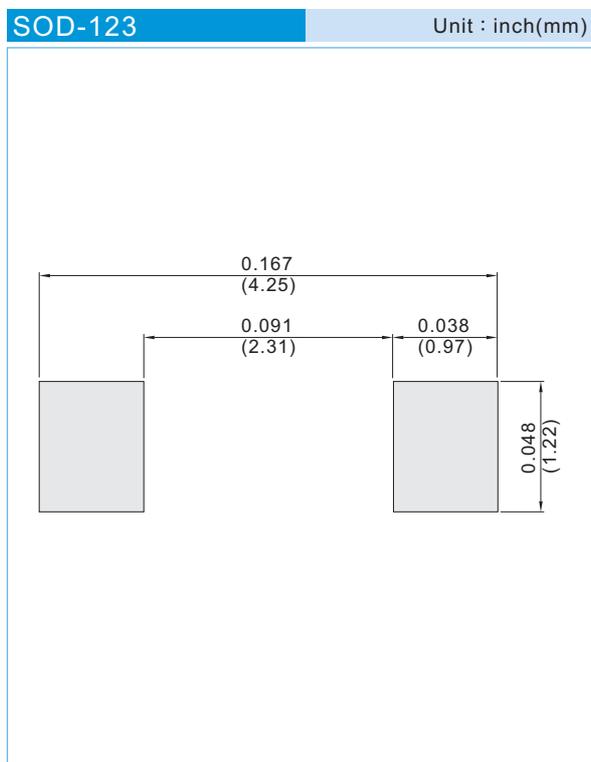


FIG. 3 POWER DERATING CURVE

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MOUNTING PAD LAYOUT



ORDER INFORMATION

- Packing information
 - T/R - 10K per 13" plastic Reel
 - T/R - 3K per 7" plastic Reel

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