



# 1N4448W

## SURFACE MOUNT SWITCHING DIODES

**VOLTAGE** 100 Volts **POWER** 500mWatts

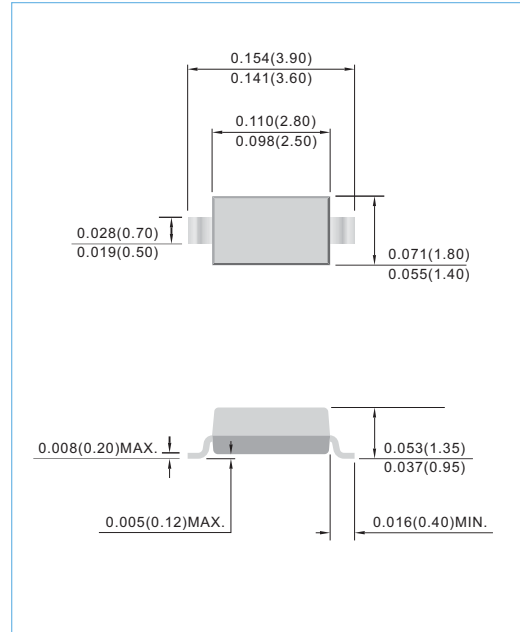
**SOD-123** Unit : inch(mm)

### 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<sub>J</sub>=25°C unless otherwise noted)

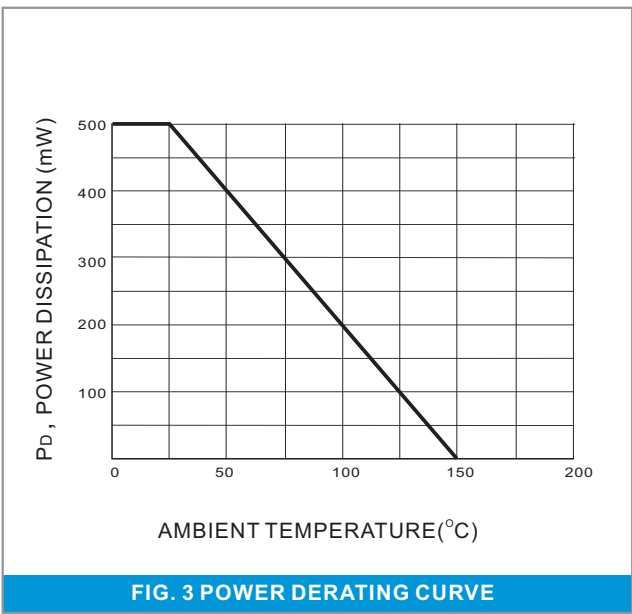
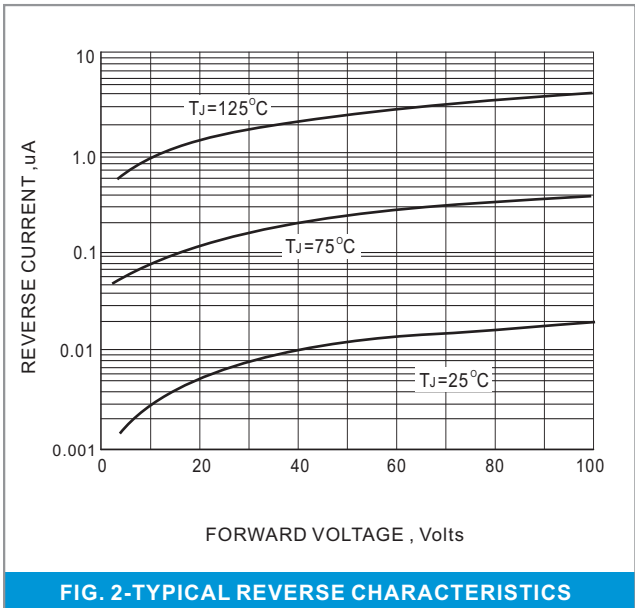
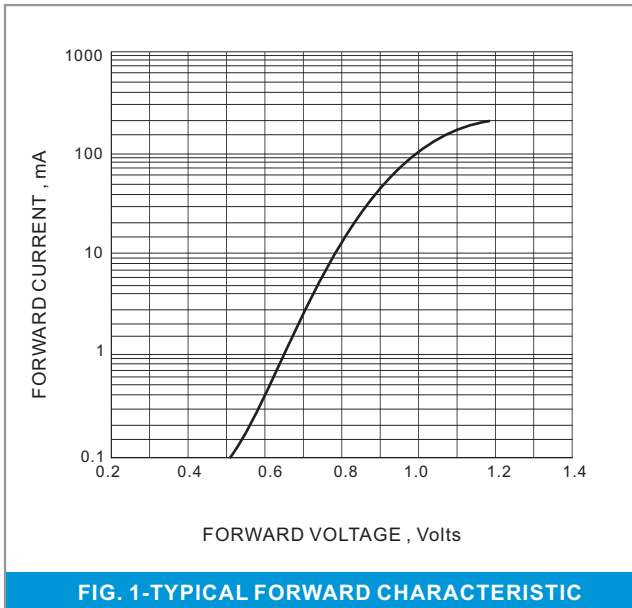
| PARAMETER  | SYMBOL                            | 1N4448W                     | UNITS  |
|--|-----------------------------------|-----------------------------|--------|
| Reverse Voltage  | V <sub>R</sub>                    | 75                          | V      |
| Peak Reverse Voltage   | V <sub>RM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

**NOTE:**

1. C<sub>J</sub> at V<sub>R</sub>=0, f=1MHZ
2. From I<sub>F</sub>=10mA to I<sub>R</sub>=1mA, V<sub>R</sub>=6Volts, R<sub>L</sub>=100Ω



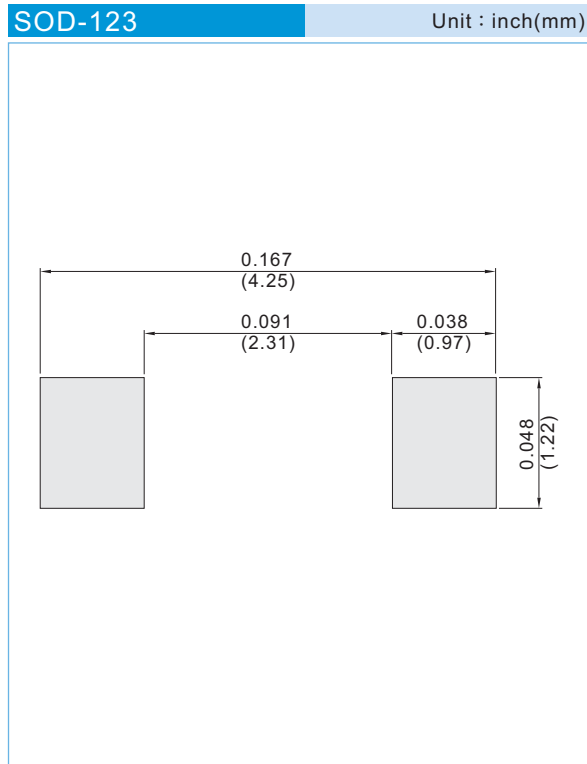
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1N4448W

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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## Part No\_packing code\_Version

1N4448W\_R1\_00001

1N4448W\_R2\_00001

For example :

**RB500V-40\_R2\_00001**

Part No.

Serial number

Version code means HF

Packing size code means 13"

Packing type means T/R

| Packing Code <b>XX</b>               |                      |                                  |                      | Version Code <b>XXXXX</b> |                      |                                       |
|--------------------------------------|----------------------|----------------------------------|----------------------|---------------------------|----------------------|---------------------------------------|
| Packing type                         | 1 <sup>st</sup> Code | Packing size code                | 2 <sup>nd</sup> Code | HF or RoHS                | 1 <sup>st</sup> Code | 2 <sup>nd</sup> ~5 <sup>th</sup> Code |
| Tape and Ammunition Box (T/B)        | <b>A</b>             | N/A                              | <b>0</b>             | <b>HF</b>                 | <b>0</b>             | serial number                         |
| Tape and Reel (T/R)                  | <b>R</b>             | 7"                               | <b>1</b>             | <b>RoHS</b>               | <b>1</b>             | serial number                         |
| Bulk Packing (B/P)                   | <b>B</b>             | 13"                              | <b>2</b>             |                           |                      |                                       |
| Tube Packing (T/P)                   | <b>T</b>             | 26mm                             | <b>X</b>             |                           |                      |                                       |
| Tape and Reel (Right Oriented) (TRR) | <b>S</b>             | 52mm                             | <b>Y</b>             |                           |                      |                                       |
| Tape and Reel (Left Oriented) (TRL)  | <b>L</b>             | PANASERT T/B CATHODE UP (PBCU)   | <b>U</b>             |                           |                      |                                       |
| FORMING                              | <b>F</b>             | PANASERT T/B CATHODE DOWN (PBCD) | <b>D</b>             |                           |                      |                                       |



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