



1N4448W-AU

SURFACE MOUNT SWITCHING DIODES

VOLTAGE 100 Volts **POWER** 500mWatts

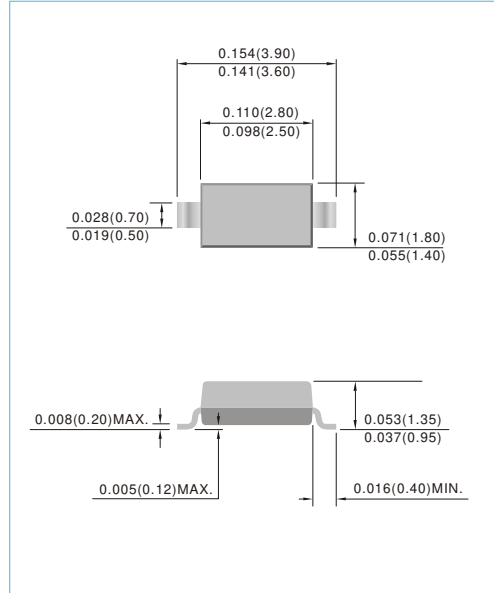
SOD-123 Unit : inch(mm)

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)
- Acquire quality system certificate : TS16949
- AEC-Q101 qualified

MECHANICAL DATA

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



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

| PARAMETER | SYMBOL | VALUE | 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, 1μs | I _{FSM} | 4 | A |
| Power Dissipation Derate Above 25°C | P _{TOT} | 500 | mW |
| Maximum Forward Voltage | V _F | 0.72 / 0.005A 1 / 0.1A | 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 | pF |
| Maximum Reverse Recovery (Note2) | t _{rr} | 4 | 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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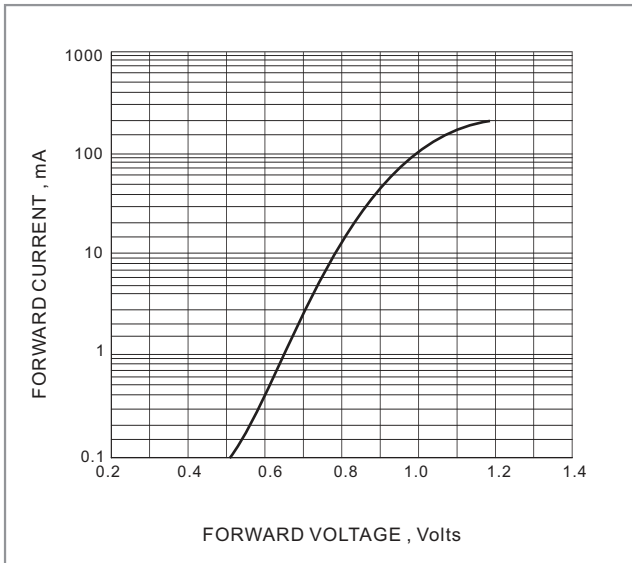


FIG. 1-TYPICAL FORWARD CHARACTERISTIC

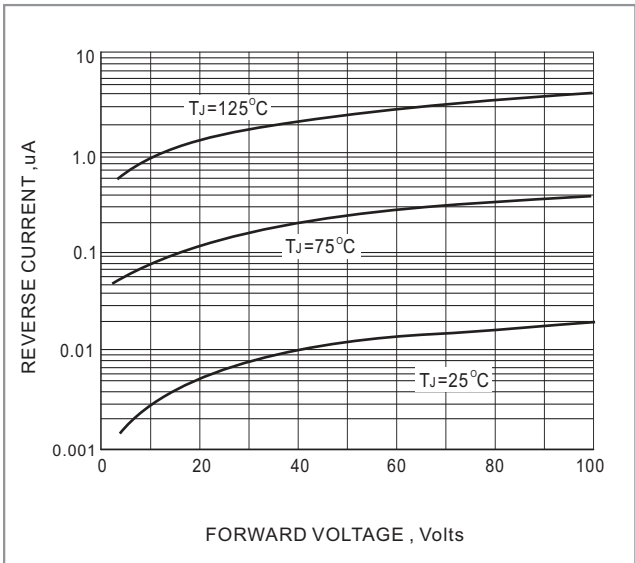


FIG. 2-TYPICAL REVERSE CHARACTERISTICS

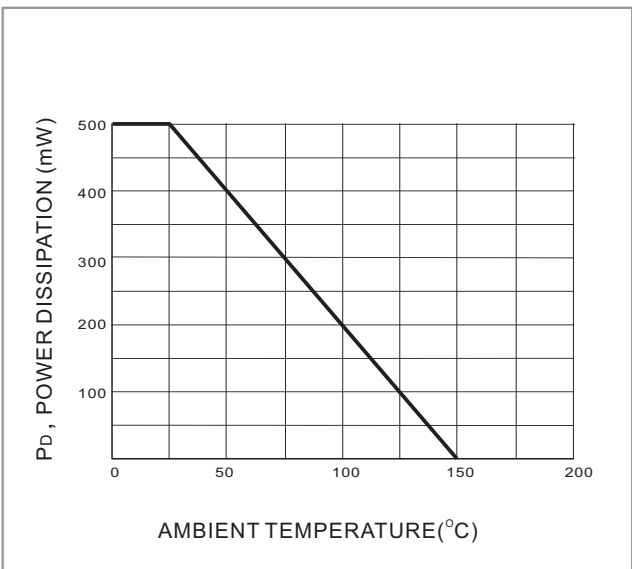
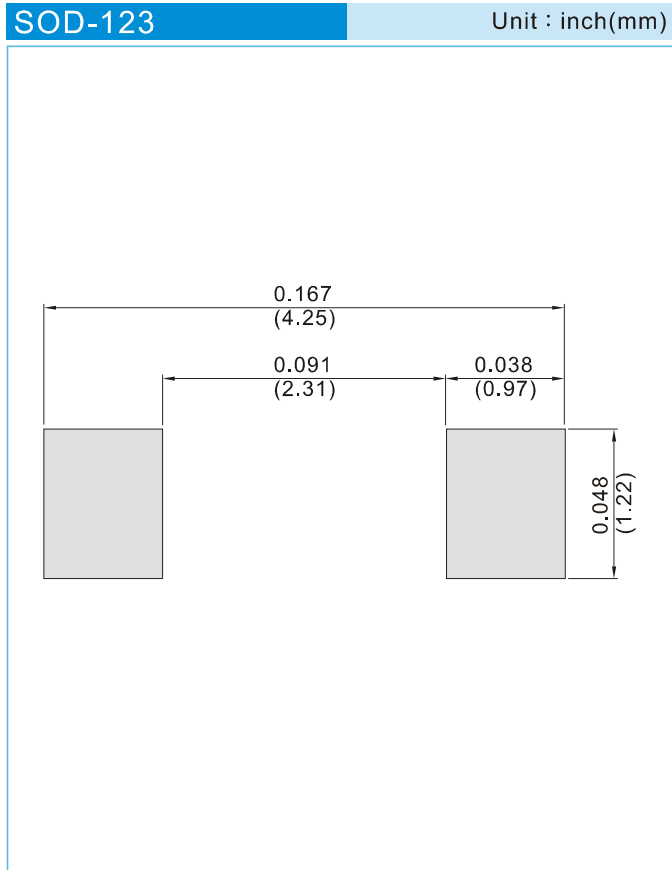


FIG. 3 POWER DERATING CURVE



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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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Part No_packing code_Version

1N4448W-AU_R1_000A1

1N4448W-AU_R2_000A1

For example :

RB500V-40 **R2** **00001**



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



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