



1N4148WS-AU~BAV16WS-AU

SURFACE MOUNT SWITCHING DIODES

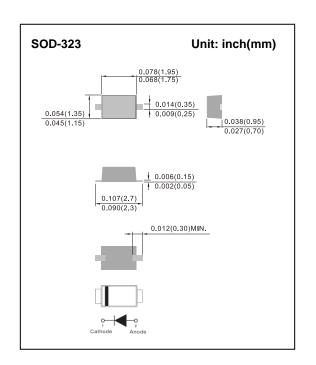
Voltage 100 V Power 250mW

Features

- Fast switching speed.
- Surface mount package Ideally Suited for Automatic insertion
- Electrically Identical to Standard JEDEC
- High Conductance
- AEC-Q101 qualified
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

Mechanical Data

- Case: SOD-323, plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Approx. Weight: 0.00014 ounces, 0.0041 grams



Maximum Ratings (T_A=25°C unless otherwise noted)

| PARAMETER | | SYMBOL | 1N4148WS-AU | 1N4448WS-AU | BAV16WS-AU | UNIT |
|---|-----------------------|----------------|---|---------------------|-----------------------------------|------|
| Marking code | | - | A2 | A3 | A6 | - |
| Reverse voltage | | Vr | 75 | | | V |
| Maximum dc blocking voltage | | VDC | 75 | | | V |
| Peak reverse voltage | | Vrm | 100 | | | V |
| RMS voltage | | VRMS | 50 | | | V |
| Maximum average forward current at T _A =25°C | | I F(AV) | 200 | | | mA |
| Peak forward surge current | 0.001ms 10ms 1s | Ігѕм | 4 1.5 0.5 | | А | |
| Power dissipation derate above 25°C | | Pp | 250 | | | mW |
| Maximum forward voltage | | VF | 0.715@1mA 0.855@10mA 1@50mA 1.25@150mA | 0.72@5mA 1@100mA | 0.715@1mA 0.855@10mA 1@50mA | V |
| Maximum dc reverse current at rated dc blocking voltage | | lr | 0.025@20V 2.5@75V | 2.5@75V | 1@75V | μА |
| Junction capacitance Measured at 1MHz and applied V _R =0V | | Cı | 1.5 | 4 | 2 | pF |
| Maximum reverse recovery time | (Note 3) | Trr | 4 | 4 | 6 | ns |
| Typical thermal resistance | (Note 1) | RөJA | 500 | | °C/W | |
| | (Note 2) | RөJA | 650 | | | |
| | (Note 4) | Rejc | 280 | | | |
| | (Note 4) | Rejl | 400 | | | |
| Operating and storage temperature range | | TJ, Tstg | -55 to +150 | | | °C |

Note: 1. Mounted on a FR4, single-sided copper, with 50 x 15mm PCB.

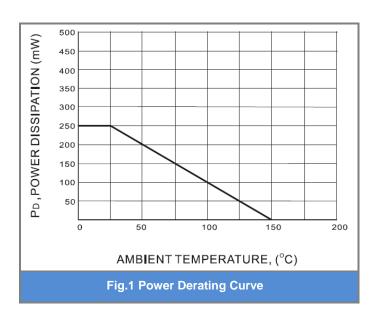
- 2. Mounted on a FR4, single-sided copper, with mini pad.
- 3. From IF=10mA to IR=1mA, VR=6Volts, R_L =100 Ω .
- 4. Mounted on a FR-4 PCB, single-sided copper, mini pad, with 100cm² copper pad area.

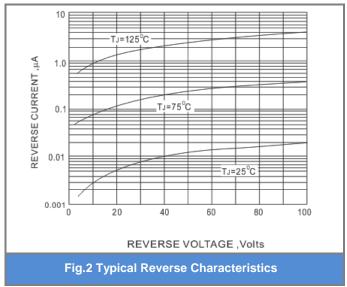


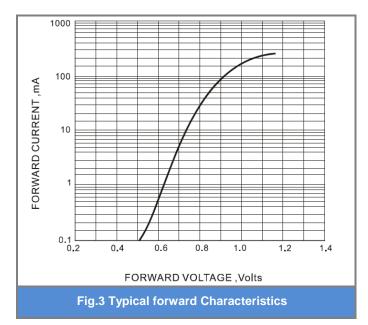


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TYPICAL CHARACTERISTIC CURVES











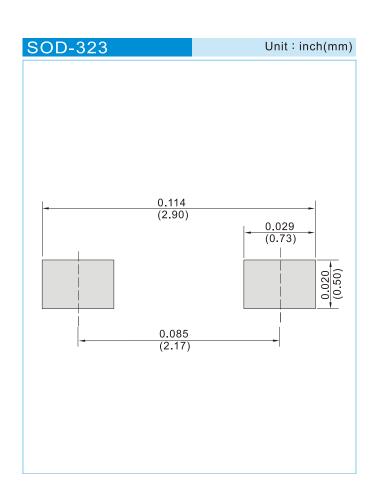
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Part No Packing Code Version

| Part No Packing Code | Package Type | Packing Type | Marking | Version | |
|----------------------|--------------|--------------------|---------|--------------|--|
| 1N4148WS-AU_R1_000A1 | SOD-323 | 5K pcs / 7" reel | A2 | Halogen free | |
| 1N4148WS-AU_R2_000A1 | SOD-323 | 12K pcs / 13" reel | A2 | Halogen free | |

Mounting Pad Layout







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