



**THE DATASHEET OF
1N4148WSTR**

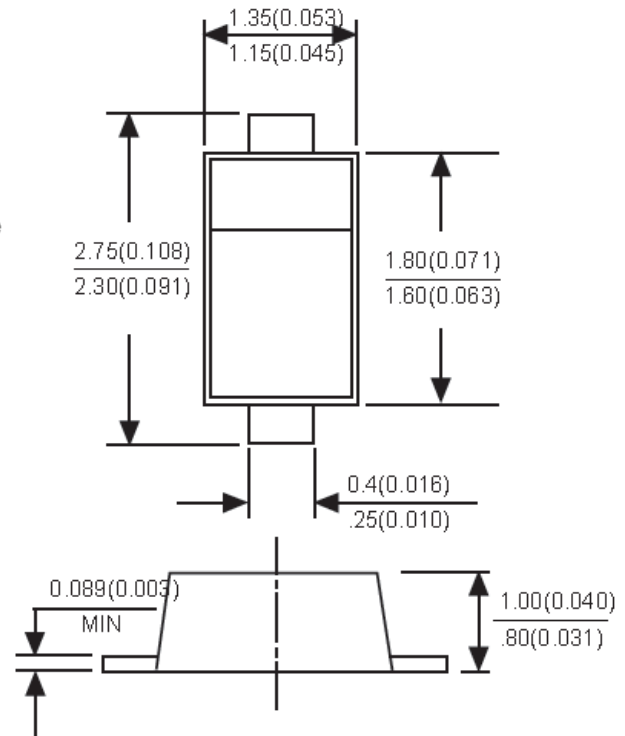


Technical Data
Data Sheet N0572, Rev. A
Features

- High Conductance
- Fast Switching Speed
- Surface Mount Package Ideally Suited for Automatic Insertion
- For General Purpose Switching Application
- Plastic Material – UL Recognition Flammability Classification 94V-0
- Green Products in Compliance with the RoHS Directive
- This is a Pb - Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

Mechanical Data

- Case: SOD-323, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 0.004 grams (approx.)
- Marking: T4



Dimensions in millimeters and (inches)

Maximum Ratings @T_A=25°C unless otherwise specified

| Characteristic | Symbol | 1N4148WS | Unit |
|--|-----------------------------------|-------------|------|
| Non-Repetitive Peak Reverse Voltage | V _{RM} | 100 | V |
| Peak Repetitive Reverse Voltage | V _{RRM} | 75 | V |
| Working Peak Reverse Voltage | V _{RWM} | | |
| DC Blocking Voltage | V _R | | |
| RMS Reverse Voltage | V _{R(RMS)} | 53 | V |
| Forward Continuous Current (Note 1) | I _{FM} | 300 | mA |
| Average Rectified Output Current (Note 1) | I _O | 150 | mA |
| Non-Repetitive Peak Forward Surge Current | I _{FSM} | 2.0 | A |
| @ t = 1.0μs | | 1.0 | |
| @ t = 1.0s | | | |
| Power Dissipation (Note 1) | P _d | 200 | mW |
| Typical Thermal Resistance, Junction to Ambient Air (Note 1) | R _{θJA} | 625 | K/W |
| Operating and Storage Temperature Range | T _J , T _{STG} | -65 to +150 | °C |

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Electrical Characteristics @ $T_A=25^{\circ}\text{C}$ unless otherwise specified

| Characteristic | Symbol | 1N4148WS | Unit |
|---|----------|----------|---------------|
| Forward Voltage Drop @ $I_F = 10\text{mA}$ | V_{FM} | 1.0 | V |
| Peak Reverse Leakage Current @ $V_R = 75\text{V}$ | I_{RM} | 2.5 | μA |
| Junction Capacitance ($V_R = 0\text{V DC}$, $f = 1.0\text{MHz}$) | C_j | 2.0 | pF |
| Reverse Recovery Time (Note 2) | t_{rr} | 4.0 | nS |

Note: 1. Valid provided that terminals are kept at ambient temperature.
2. Measured with $I_F = I_R = 10\text{mA}$, $I_{RR} = 0.1 \times I_R$, $R_L = 100\ \Omega$.

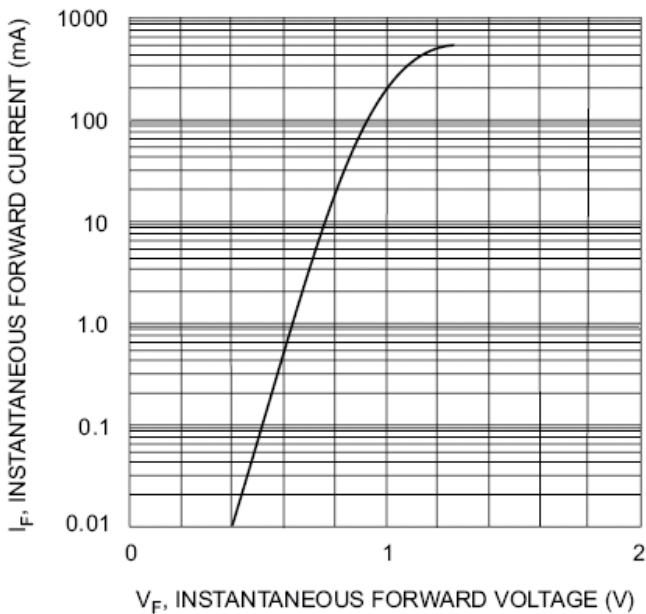


Fig. 1 Forward Characteristics

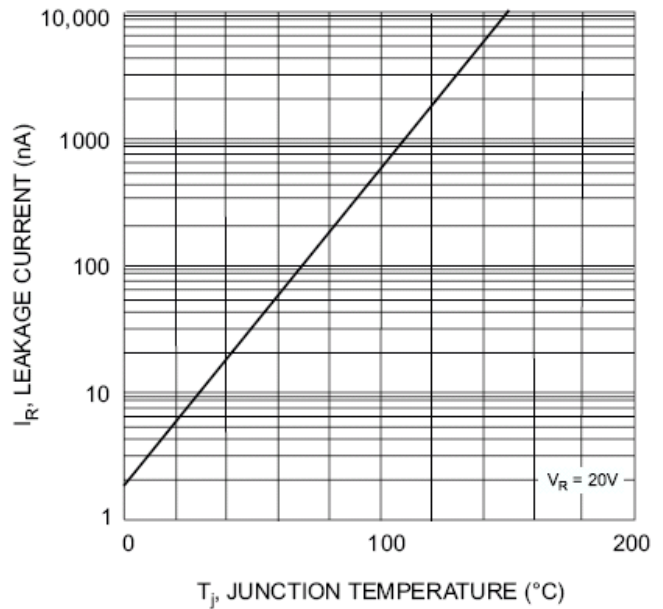


Fig. 2 Leakage Current vs Junction Temperature



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