## 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-O


| SOD-323 |  |  |
| :---: | :---: | :---: |
| Dim | Min | Max |
| A | 2.30 | 2.70 |
| B | 1.75 | 1.95 |
| C | 1.15 | 1.35 |
| D | 0.25 | 0.35 |
| E | 0.05 | 0.15 |
| G | 0.70 | 0.95 |
| H | 0.30 | - |
| All Dimensions in $\mathbf{~ m m}$ |  |  |

## 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: A2


All Dimensions in mm

## Maximum Ratings $@ T_{A}=25^{\circ} \mathrm{C}$ unless otherwise specified

| Characteristic | Symbol | Value | Unit |
| :---: | :---: | :---: | :---: |
| Non-Repetitive Peak Reverse Voltage | VRM | 100 | V |
| Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage | Vrrm <br> VRWM <br> VR | 75 | V |
| RMS Reverse Voltage | VR(RMS) | 53 | V |
| Forward Continuous Current (Note 1) | IFM | 300 | mA |
| Average Rectified Output Current (Note 1) | Io | 150 | mA |
| Non-Repetitive Peak Forward Surge Current $\begin{gathered}\text { @ t }=1.0 \mu \mathrm{~s} \\ \\ @ t=1.0 \mathrm{~s}\end{gathered}$ | IFSM | $\begin{aligned} & 2.0 \\ & 1.0 \end{aligned}$ | A |
| Power Dissipation (Note 1) | Pd | 200 | mW |
| Typical Thermal Resistance, Junction to Ambient Air (Note 1) | $\mathrm{R}_{\theta} \mathrm{JA}$ | 625 | K/W |
| Operating and Storage Temperature Range | Tj, Tsta | -65 to +150 | ${ }^{\circ} \mathrm{C}$ |

Electrical Characteristics $@ \mathrm{~T}_{\mathrm{A}}=25^{\circ} \mathrm{C}$ unless otherwise specified

| Characteristic | Symbol | Value | Unit |
| :---: | :---: | :---: | :---: |
| Forward Voltage Drop @ IF = 10mA | VFM | 1.0 | V |
| Peak Reverse Leakage Current @ VR=75V | IRM | 2.5 | $\mu \mathrm{A}$ |
| Junction Capacitance (VR $=0 \mathrm{~V}$ DC, $\mathrm{f}=1.0 \mathrm{MHz}$ ) | $\mathrm{C}_{\mathrm{j}}$ | 2.0 | pF |
| Reverse Recovery Time (Note 2) | trr | 4.0 | nS |

Note: 1. Valid provided that terminals are kept at ambient temperature.
2. Measured with $I F=I R=10 \mathrm{~mA}, \mathrm{IRR}=0.1 \times \mathrm{IR}, \mathrm{RL}=100 \Omega$.


## ORDERING INFORMATION

| Product No. ${ }^{*}$ | Package Type | Shipping Quantity |
| :--- | :---: | :---: |
| 1N4148WS-T1 | SOD-323 | $5000 /$ Tape \& Reel |
| 1N4148WS-T3 | SOD-323 | 10000/Tape \& Reel |

Products listed in bold are WTE Preferred devices.
"T1 suffix refers to a 7" reel. T3 suffix refers to a 13 " reel
Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.

## RECOMMENDED FOOTPRINT


inches(mm)

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WARNING: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

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