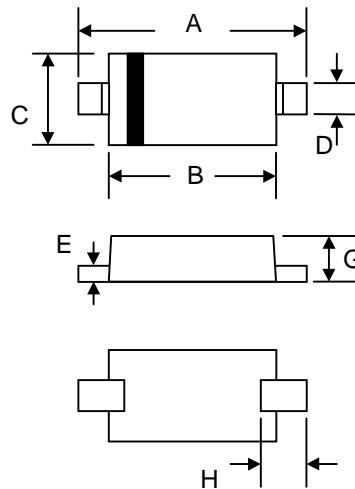


Features

- 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

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.)



| 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 mm | | |

Maximum Ratings @ T_A = 25°C unless otherwise specified

| Characteristic | Symbol | Value | Unit |
|--|--|-------------|------|
| Non-Repetitive Peak Reverse Voltage | V _{RM} | 100 | V |
| Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage | V _{RRM} V _{RWM} V _R | 75 | V |
| 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 @ t = 1.0μs @ t = 1.0s | I _{FSM} | 2.0 1.0 | A |
| 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 |

Electrical Characteristics @ T_A = 25°C unless otherwise specified

| Characteristic | Symbol | Value | Unit |
|---|-----------------|-------|------|
| Forward Voltage Drop @ I _F = 10mA | V _{FM} | 0.855 | V |
| Peak Reverse Leakage Current @ V _R = 75V | I _{RM} | 1.0 | μA |
| Junction Capacitance (V _R = 0V DC, f = 1.0MHz) | C _j | 2.0 | pF |
| Reverse Recovery Time (Note 2) | t _{rr} | 6.0 | nS |

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

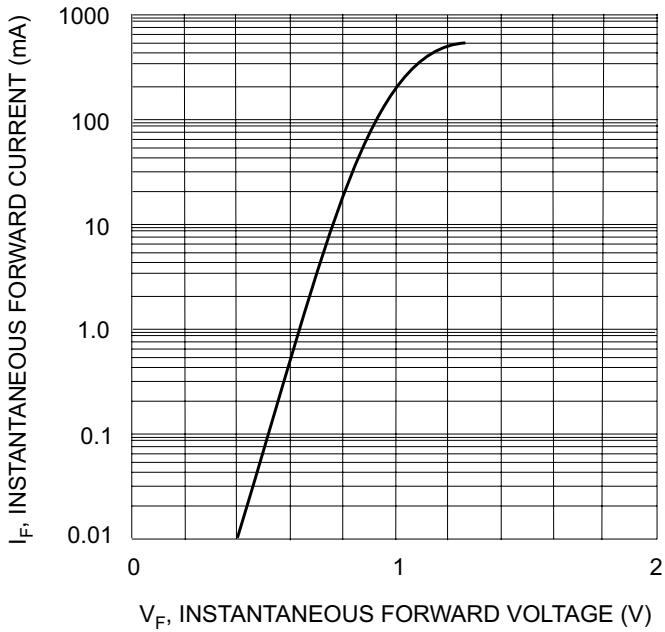


Fig. 1 Forward Characteristics

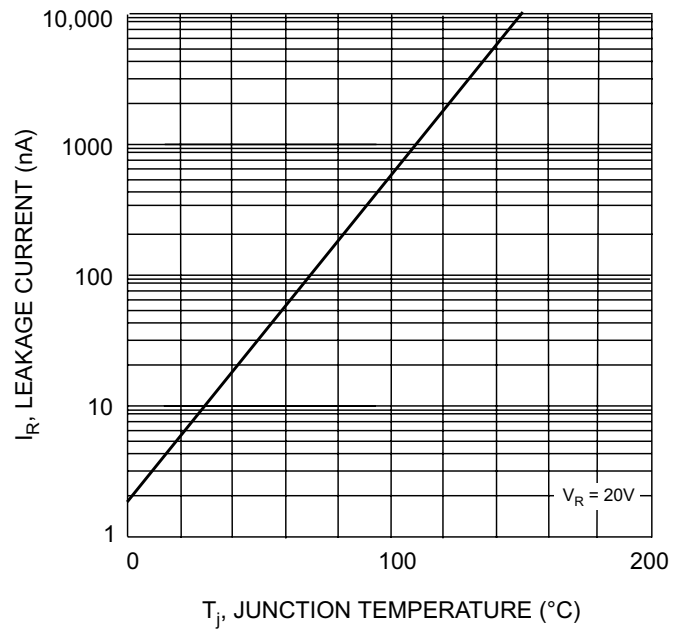


Fig. 2 Leakage Current vs Junction Temperature