

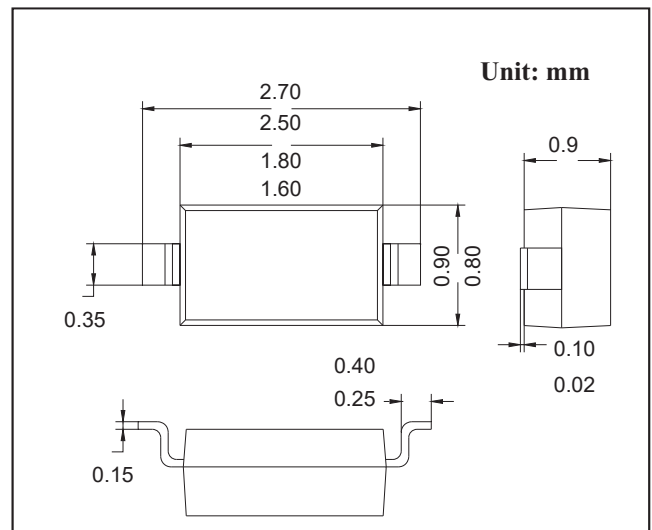
SOD323 Small Signal Switching Diodes

FEATURES

- Fast Switching Speed
- Surface Mount Package Ideally Suited for Automatic Insertion For
- General Purpose Switching Applications
- High Conductance

MECHANICAL DATA

- Case: SOD-323 Small Outline Plastic Package
- Polarity: Color band denotes cathode end
- Mounting Position: Any



MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted)

| Parameter | Symbol | Limit | Unit |
|--|-----------------|----------|------|
| Non-Repetitive Peak Reverse Voltage | V_{RM} | 100 | V |
| Peak Repetitive Peak Reverse Voltage | V_{RRM} | 100 | V |
| Working Peak Reverse Voltage | V_{RWM} | | |
| DC Blocking Voltage | V_R | | |
| RMS Reverse Voltage | $V_{R(RMS)}$ | 71 | V |
| Forward Continuous Current | I_{FM} | 300 | mA |
| Average Rectified Output Current | I_O | 150 | mA |
| Non-Repetitive Peak Forward Surge Current @t=8.3ms | I_{FSM} | 2.0 | A |
| Power Dissipation | P_d | 200 | mW |
| Thermal Resistance from Junction to Ambient | $R_{\theta JA}$ | 625 | °C/W |
| Junction Temperature | T_j | 150 | °C |
| Storage Temperature | T_{STG} | -55~+150 | °C |

Electrical Specification ($T_A=25^\circ\text{C}$ unless otherwise specified)

| Parameter | Symbol | Min | Typ | Max | Unit | Conditions |
|-------------------------------|----------|-----|-----|-------|---------------|---|
| Forward voltage | V_{F1} | | | 0.715 | V | $I_F=1\text{mA}$ |
| | V_{F2} | | | 0.855 | V | $I_F=10\text{mA}$ |
| | V_{F3} | | | 1.0 | V | $I_F=50\text{mA}$ |
| | V_{F4} | | | 1.25 | V | $I_F=150\text{mA}$ |
| Reverse current | I_{R1} | | | 1 | μA | $V_R=75\text{V}$ |
| | I_{R2} | | | 25 | nA | $V_R=20\text{V}$ |
| Capacitance between terminals | C_T | | | 2 | pF | $V_R=0\text{V}, f=1\text{MHz}$ |
| Reverse recovery time | t_{rr} | | | 4 | ns | $I_F=I_R=10\text{mA}$ $I_{rr}=0.1I_R, R_L=100\Omega$ |

RATINGS AND CHARACTERISTIC CURVES

