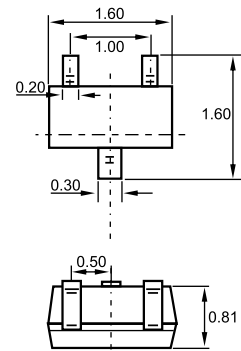




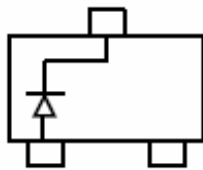
SOT-523



Dimensions in inches and (millimeters)

Features

- ✧ Fast Switching Speed
- ✧ For General Purpose Switching Applications
- ✧ High Conductance



MARKING :T3

Maximum Ratings @T_A=25°C

| Parameter | Symbol | Limits | Unit | |
|--|------------------|-------------|------|---|
| Peak Repetitive Peak reverse voltage | V _{RRM} | 200 | V | |
| Working Peak Reverse Voltage | V _{RWM} | | | |
| DC Blocking Voltage | V _R | | | |
| Forward Continuous Current | I _{FM} | 400 | mA | |
| Average Rectified Output Current | I _O | 200 | mA | |
| Non-Repetitive Peak Forward Surge Current | I _{FSM} | @ t = 1.0μs | 2.5 | A |
| | | @ t = 1.0s | 0.5 | |
| Power Dissipation | P _D | 150 | mW | |
| Thermal Resistance Junction to Ambient Air | R _{θJA} | 833 | °C/W | |
| Operating Junction Temperature | T _J | 150 | °C | |
| Storage temperature | T _{STG} | -65-150 | °C | |

ELECTRICAL CHARACTERISTICS (T_{amb}=25°C unless otherwise specified)

| Parameter | Symbol | Test conditions | MIN | MAX | UNIT |
|---------------------------------|-------------------|---|-----|-----------|------|
| Reverse breakdown voltage | V _(BR) | I _R = 100μA | 200 | | V |
| Reverse voltage leakage current | I _R | V _R =200V | | 100 | nA |
| Forward voltage | V _F | I _F =100mA I _F =200mA | | 1 1.25 | V |
| Total capacitance | C _T | V _R =0V,f=1MHz | | 5 | pF |
| Reverse recovery time | t _{rr} | I _F =I _R =30mA,I _{rr} =0.1X I _R , R _L =100Ω | | 50 | nS |

Typical Characteristics

