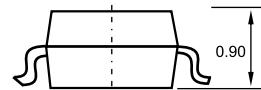
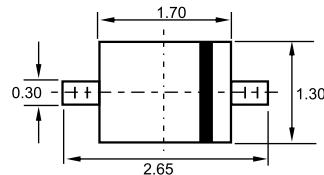



SOD-323


Features

- ✧ Extremely Fast Switching Speed
- ✧ Low forward voltage

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Dimensions in inches and (millimeters)

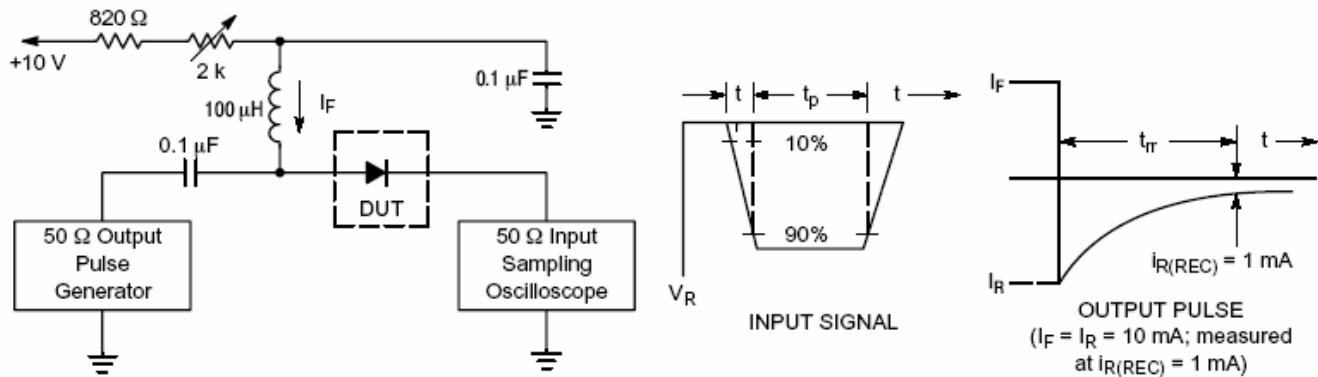
Maximum Ratings

| Parameter | Symbol | Limits | Unit |
|--|-----------------|---------|------|
| Non-Repetitive Peak reverse voltage | V_{RM} | 30 | V |
| DC Blocking Voltage | V_R | 21 | V |
| Average Rectified Output Current | I_O | 100 | mA |
| Forward continuous Current | I_F | 200 | mA |
| Repetitive peak Forward Current | I_{FRM} | 300 | mA |
| Forward Surge Current | I_{FSM} | 600 | mA |
| Power Dissipation | P_d | 200 | mW |
| Thermal resistance, junction to ambient air | $R_{\theta JA}$ | 625 | °C/W |
| Junction temperature | T_J | 125 | °C |
| Storage temperature range | T_{STG} | -65-150 | °C |

Electrical Characteristics @ $T_A=25^\circ C$

| Parameter | Symbol | Conditions | Min. | Typ. | Max. | Unit |
|--------------------------------------|-------------|---|------|------|------|------|
| Reverse Breakdown Voltage | $V_{(BR)R}$ | $I_R=100\mu A$ | 30 | | | V |
| Forward voltage | V_{F1} | $I_F=0.1mA$ | | | 240 | mV |
| | V_{F2} | $I_F=1.0mA$ | | | 320 | mV |
| | V_{F3} | $I_F=10mA$ | | | 400 | mV |
| | V_{F4} | $I_F=30mA$ | | | 500 | mV |
| | V_{F5} | $I_F=100mA$ | | | 1000 | mV |
| Reverse current | I_R | $V_R=25V$ | | | 2.0 | uA |
| Reverse recovery time | t_{rr} | $I_F=10mA, I_R=10mA \text{ to } 1mA, R_L=100\Omega$ | | | 5.0 | ns |
| Capacitance between terminals | C_T | $V_R=1V, f=1MHz$ | | | 10 | pF |

Typical Characteristics



Notes: 1. A 2.0 kΩ variable resistor adjusted for a Forward Current (I_F) of 10 mA.
2. Input pulse is adjusted so $I_{R(peak)}$ is equal to 10 mA.
3. $t_p \gg t_{rr}$

Figure 1. Recovery Time Equivalent Test Circuit

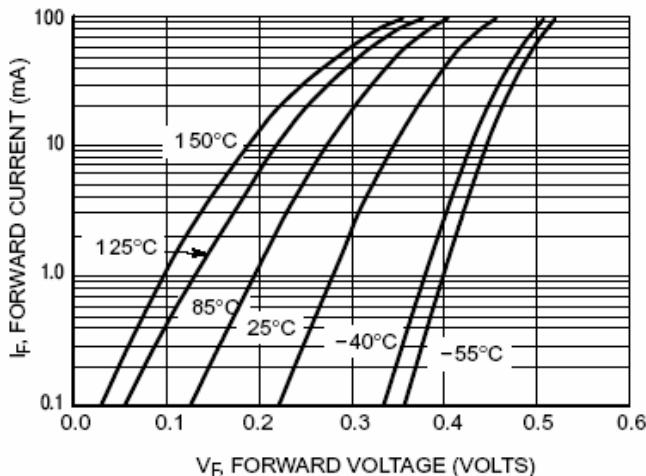


Figure 2. Forward Voltage

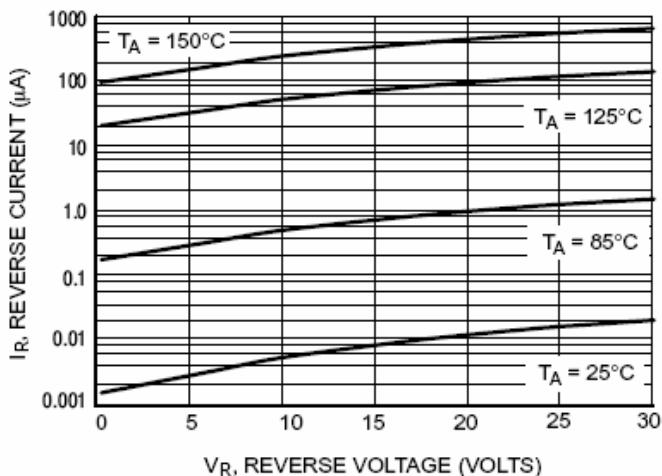


Figure 3. Leakage Current

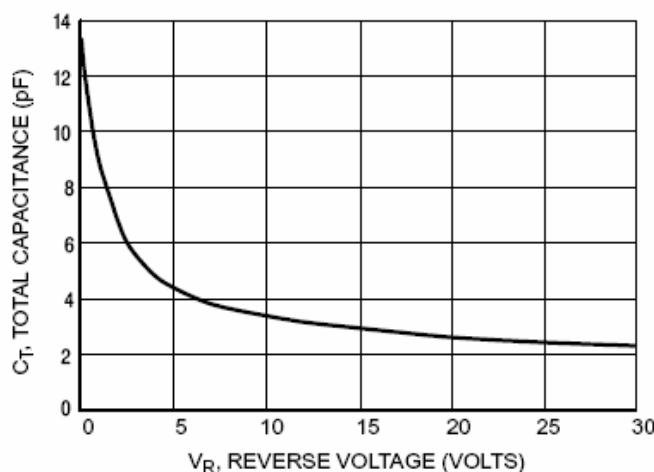


Figure 4. Total Capacitance