

1SS177

HIGH SPEED SWITCHING DIODE

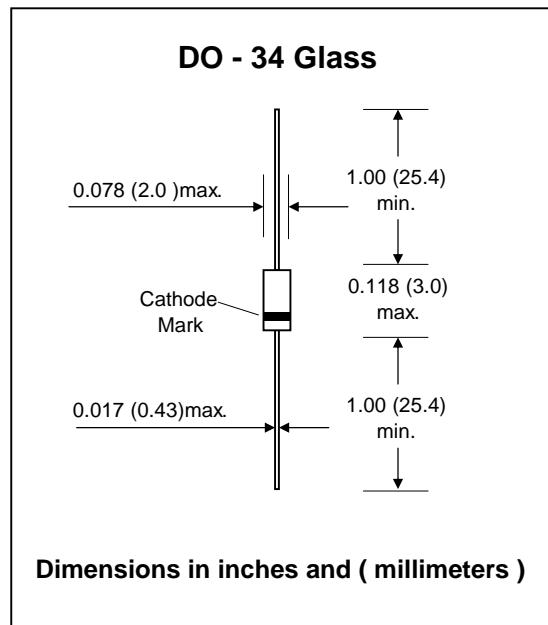
FEATURES :

- High switching speed: max. 4 ns
- Continuous reverse voltage: max. 50 V
- Repetitive peak reverse voltage: max. 55 V
- Pb / RoHS Free

MECHANICAL DATA :

Case: DO-34 Glass Case

Weight: approx. 0.093g



Maximum Ratings and Thermal Characteristics (Rating at 25 °C ambient temperature unless otherwise specified.)

| Parameter | Symbol | Value | Unit |
|---|-----------|-------|------|
| Maximum Repetitive Peak Reverse Voltage | V_{RRM} | 55 | V |
| Maximum Continuous Reverse Voltage | V_{RM} | 50 | V |
| Maximum Average Forward Current | I_F | 100 | mA |
| Maximum Peak Forward Current | I_{FM} | 300 | mA |
| Maximum Power Dissipation | P_D | 300 | mW |
| Maximum Non-repetitive Peak Forward Current | I_{FSM} | 1.0 | A |

Electrical Characteristics ($T_a = 25^\circ\text{C}$ unless otherwise noted)

| Parameter | Symbol | Test Condition | Min. | Typ. | Max. | Unit |
|-------------------------------|----------|--|------|------|------|---------------|
| Reverse Current | I_R | $V_R = 50 \text{ V}$ | - | - | 0.5 | μA |
| Forward Voltage | V_F | $I_F = 100 \text{ mA}$ | - | - | 1.2 | V |
| Capacitance between terminals | C_T | $f = 1\text{MHz} ; V_R = 0.5 \text{ V}$ | - | - | 3.0 | pF |
| Reverse Recovery Time | T_{rr} | $I_F = 10 \text{ mA} , V_R = 6 \text{ V}$ $R_L = 50 \Omega$ | - | - | 4.0 | ns |