

1SS270A

HIGH SPEED SWITCHING DIODE

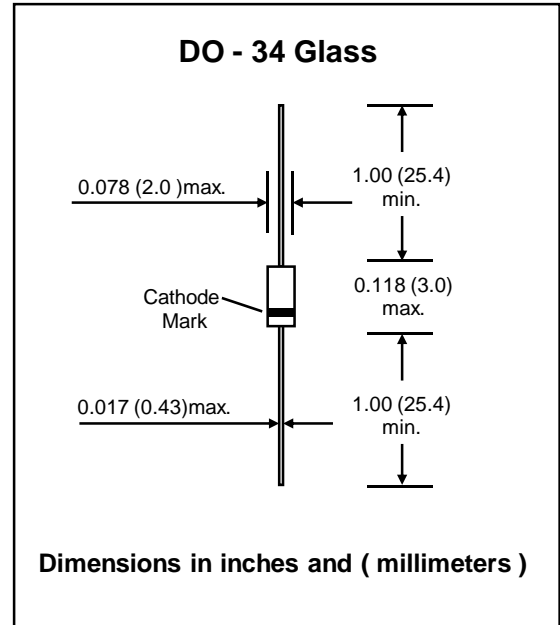
FEATURES :

- High switching speed: max. 3.5 ns
- Continuous reverse voltage: max. 60 V
- Peak reverse voltage: max. 70 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 Peak Reverse Voltage | V_{RM} | 70 | V |
| Maximum Reverse Voltage | V_R | 60 | V |
| Maximum Average Forward Current | $I_{F(AV)}$ | 150 | mA |
| Maximum Peak Forward Current | I_{FM} | 450 | mA |
| Maximum Power Dissipation | P_D | 250 | mW |
| Maximum Non-repetitive Peak Forward Current | I_{FSM} | 1.0 | A |
| Maximum Junction Temperature | T_J | 175 | °C |
| Storage Temperature Range | T_S | -65 to + 175 | °C |

Electrical Characteristics (Ta = 25°C unless otherwise noted)

| Parameter | Symbol | Test Condition | Min. | Typ. | Max. | Unit |
|-----------------------|----------|------------------------------------------------|------|------|------|------|
| Reverse Current | I_R | $V_R = 60 V$ | - | - | 1.0 | μA |
| Forward Voltage | V_F | $I_F = 10 mA$ | - | - | 0.8 | V |
| Capacitance | C | $f = 1MHz ; V_R = 1V$ | - | - | 3.0 | pF |
| Reverse Recovery Time | T_{rr} | $I_F = 10 mA , V_R = 6 V$ $R_L = 50 \Omega$ | - | - | 3.5 | ns |

RATING AND CHARACTERISTIC CURVES (1SS270A)

FIG.1 - FORWARD CURRENT Vs. FORWARD VOLTAGE

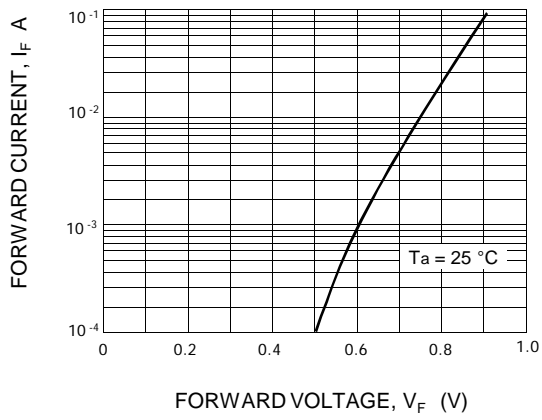


FIG.2 - CAPACITANCE Vs. REVERSE VOLTAGE

