

# 1SS270A

## FEATURES :

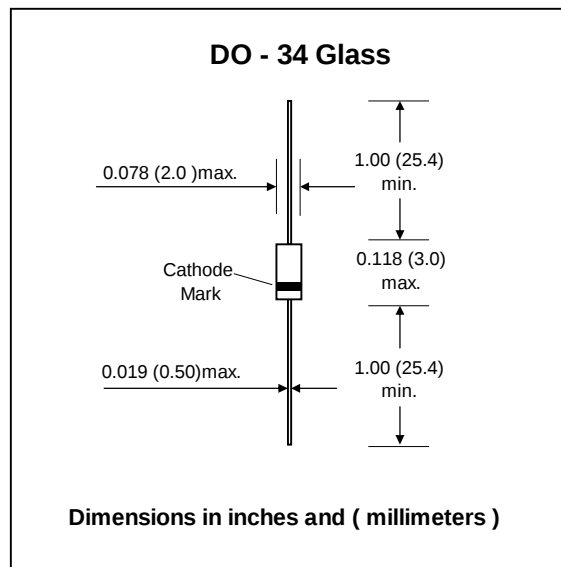
- High switching speed: max. 3.5 ns
- Continuous reverse voltage: max. 60 V
- Peak reverse voltage: max. 70 V
- Pb / RoHS Free

## MECHANICAL DATA :

**Case:** DO-34 Glass Case

**Weight:** approx. 0.093g

## HIGH SPEED SWITCHING DIODE



## 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       | $I_R$    | $V_R = 60 \text{ V}$                                           | -    | -    | 1.0  | $\mu\text{A}$ |
| Forward Voltage       | $V_F$    | $I_F = 10 \text{ mA}$                                          | -    | -    | 0.8  | V             |
| Capacitance           | C        | $f = 1\text{MHz} ; V_R = 1\text{V}$                            | -    | -    | 3.0  | pF            |
| Reverse Recovery Time | $T_{rr}$ | $I_F = 10 \text{ mA} , V_R = 6 \text{ V}$<br>$R_L = 50 \Omega$ | -    | -    | 3.5  | ns            |