

# 1SS178

## FEATURES :

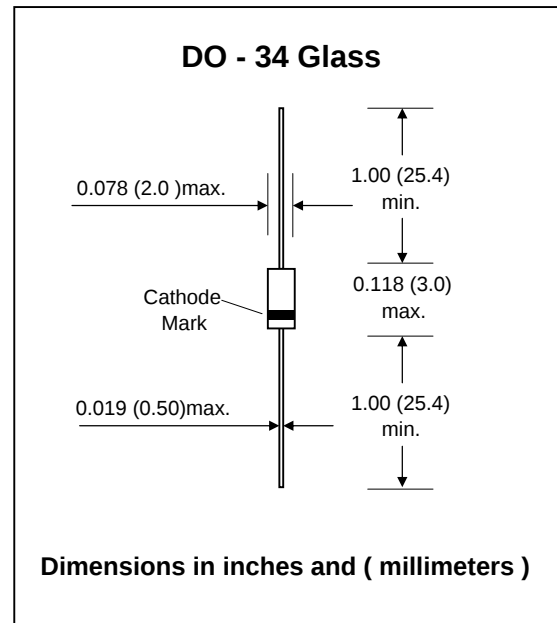
- High switching speed: max. 4 ns
- Continuous reverse voltage: max. 80 V
- Repetitive peak reverse voltage: max. 90 V
- Pb / RoHS Free

## 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 specifiec.)

| Parameter                                   | Symbol    | Value | Unit |
|---------------------------------------------|-----------|-------|------|
| Maximum Repetitive Peak Reverse Voltage     | $V_{RRM}$ | 90    | V    |
| Maximum Continuous Reverse Voltage          | $V_{RM}$  | 80    | 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 (Ta = 25°C unless otherwise noted)

| Parameter                     | Symbol   | Test Condition                                                 | Min. | Typ. | Max. | Unit          |
|-------------------------------|----------|----------------------------------------------------------------|------|------|------|---------------|
| Reverse Current               | $I_R$    | $V_R = 80 \text{ V}$                                           | -    | -    | 0.5  | $\mu\text{A}$ |
| 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         | $T_{rr}$ | $I_F = 10 \text{ mA} , V_R = 6 \text{ V}$<br>$R_L = 50 \Omega$ | -    | -    | 4.0  | ns            |