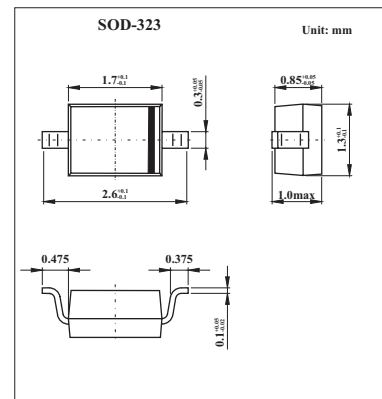


HIGH SPEED SWITCHING APPLICATION

1SS367

■ Features

- Small package: :SC-70
- Low forward voltage : $V_{F(3)} = 0.23 \text{ V(Typ)} @ I_F = 5 \text{ mA}$

■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

| Parameter | Symbol | Rating | Unit |
|--------------------------------|-----------|-------------|------------------|
| Maximum (peak) reverse voltage | V_{RM} | 15 | V |
| Reverse voltage | V_R | 10 | V |
| Maximum (peak) forward current | I_{FM} | 200 | mA |
| Average forward current | I_O | 100 | mA |
| Surge current (10 ms) | I_{FSM} | 1 | A |
| Power dissipation | $P^{(*)}$ | 200 | mW |
| Junction Temperature | T_j | 125 | $^\circ\text{C}$ |
| Storage Temperature range | T_{stg} | -55 to +125 | $^\circ\text{C}$ |
| Operating temperature range | T_{opr} | -40 to +100 | $^\circ\text{C}$ |

(*) Mounted on a glass epoxy circuit board of 20 * 20 mm, pad dimension of 4 * 4 mm.

■ Electrical Characteristics $T_a = 25^\circ\text{C}$

| Parameter | Symbol | Test Conditions | Min | Typ | Max | Unit |
|-------------------|------------|--------------------------------|-----|------|-----|---------------|
| Forward voltage | $V_{F(1)}$ | $I_F = 1 \text{ mA}$ | | 0.18 | | V |
| | $V_{F(2)}$ | $I_F = 5 \text{ mA}$ | | 0.23 | 0.3 | |
| | $V_{F(3)}$ | $I_F = 100 \text{ mA}$ | | 0.35 | 0.5 | |
| Reverse current | I_R | $V_R = 10 \text{ V}$ | | | 20 | μA |
| Total capacitance | C_t | $V_R = 0, f = 1.0 \text{ MHz}$ | | 20 | 40 | pF |

■ Marking

| | |
|---------|----|
| Marking | S4 |
|---------|----|