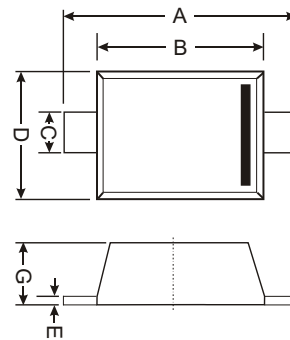


Features

- Low reverse current and low forward voltage.
- High reliability
- silicon epitaxial planar

Mechanical Data

- Case: SOD-523, Plastic
- Case material - UL Flammability Rating Classification 94V-0
- Marking Code: 5
- Weight: 0.002 grams (approx.)



| SOD-523 | | |
|----------------------|------|------|
| Dim | Min | Max |
| A | 1.50 | 1.70 |
| B | 1.10 | 1.30 |
| C | 0.25 | 0.35 |
| D | 0.70 | 0.90 |
| E | 0.10 | 0.20 |
| G | 0.50 | 0.70 |
| All Dimensions in mm | | |

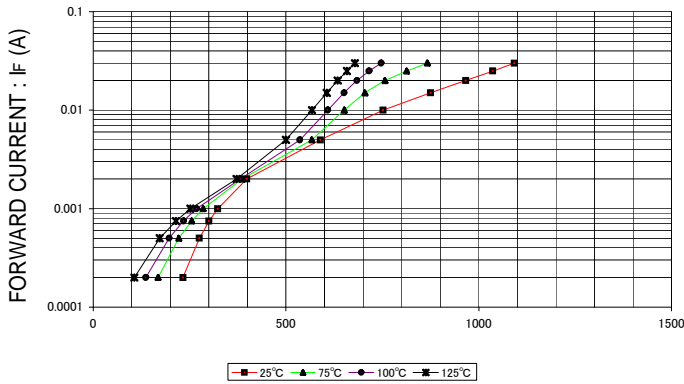
Maximum Ratings @ $T_A = 25^\circ\text{C}$ unless otherwise specified

| Parameter | Symbol | Limits | Unit |
|----------------------------|-----------|----------|------------------|
| Peak reverse voltage | V_{RM} | 40 | V |
| DC reverse voltage | V_R | 30 | V |
| Mean rectifying current | I_O | 30 | mA |
| Peak forward surge current | I_{FSM} | 200 | mA |
| Junction temperature | T_j | 125 | $^\circ\text{C}$ |
| Storage temperature | T_{stg} | -40~+125 | $^\circ\text{C}$ |

ELECTRICAL CHARACTERISTICS ($T_A = 25^\circ\text{C}$)

| Parameter | Symbol | Min. | Typ | Max. | Unit | Conditions |
|-------------------------------|--------|------|-----|------|---------------|------------------------------------|
| Forward voltage | V_F | - | - | 0.37 | V | $I_F = 1\text{mA}$ |
| Reverse current | I_R | - | - | 0.5 | μA | $V_R = 30\text{V}$ |
| Capacitance between terminals | C_T | - | 2.0 | - | pF | $V_R = 1\text{V}, f = 1\text{MHz}$ |

Electrical characteristic curves ($T_A = 25^\circ\text{C}$)



FORWARD VOLTAGE : V_F (mV)
Fig. 1 Forward characteristics

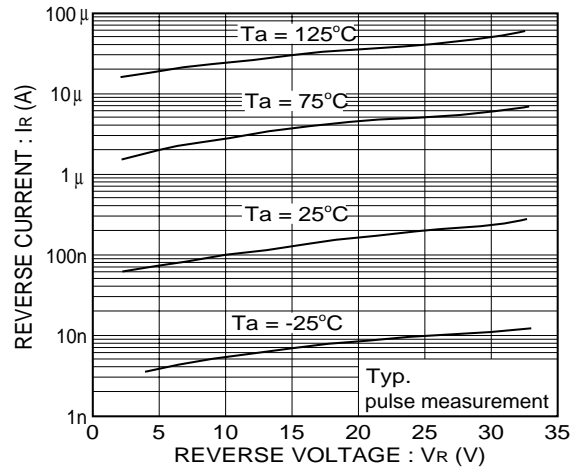


Fig. 2 Reverse characteristics

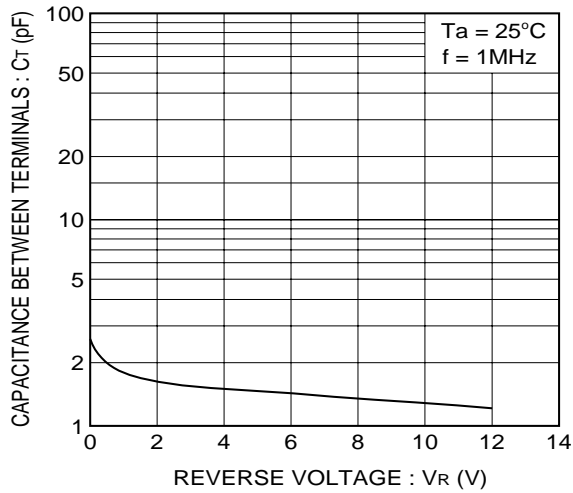


Fig. 3 Capacitance between terminals characteristics