

Features

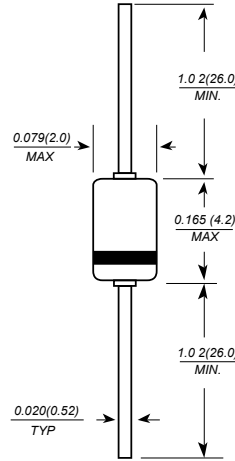
- Low forward voltage
- Hermetically-sealed leaded glass package

Mechanical Data

- Case: DO-35, glass case
- Polarity: Color band denotes cathode
- Weight: 0.004 ounces, 0.13 grams



DO-35(GLASS)



Dimensions in millimeters

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

| Parameter | Symbol | Value | Unit |
|---|-------------|---------------|------------------|
| Continuous Reverse Voltage | V_R | 30 | V |
| Continuous Forward Current | I_F | 200 | mA |
| Average Forward Current | $I_{F(AV)}$ | 200 | mA |
| Repetitive Peak Forward Current | I_{FRM} | 300 | mA |
| Non-Repetitive Peak Forward Current | I_{FSM} | 5 | A |
| Thermal Resistance from Junction to Ambient | R_{thja} | 320 | K/W |
| Operating Ambient Temperature | T_{amb} | - 65 to + 125 | $^\circ\text{C}$ |
| Junction Temperature | T_J | 125 | $^\circ\text{C}$ |
| Storage Temperature Range | T_S | - 65 to + 150 | $^\circ\text{C}$ |

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

| Parameter | Symbol | Max. | Unit |
|---|----------|------|---------------|
| Forward Voltage at $I_F = 0.1\text{ mA}$ | V_F | 240 | mV |
| at $I_F = 1\text{ mA}$ | V_F | 320 | mV |
| at $I_F = 10\text{ mA}$ | V_F | 400 | mV |
| at $I_F = 30\text{ mA}$ | V_F | 500 | mV |
| at $I_F = 100\text{ mA}$ | V_F | 800 | mV |
| Reverse Current at $V_R = 25\text{ V}$ | I_R | 2 | μA |
| Diode Capacitance at $V_R = 1\text{ V}$, $f = 1\text{ MHz}$ | C_d | 10 | pF |
| Reverse Recovery Time at $I_F = 10\text{ mA}$, $I_R = 10\text{ mA}$, $R_L = 100\ \Omega$ | t_{rr} | 4 | ns |

FIG.1 – ADMISSIBLE POWER DISSIPATION VS. AMBIENT TEMPERATURE

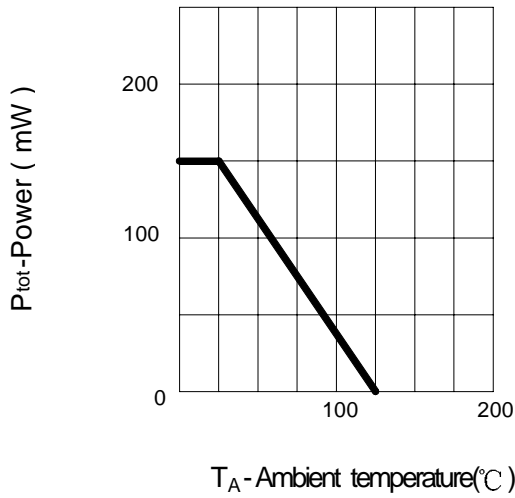


FIG. 2 – TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

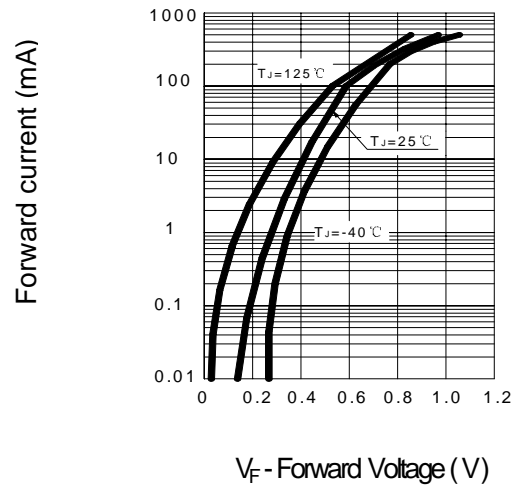


FIG. 3 – TYPICAL REVERSE CHARACTERISTICS

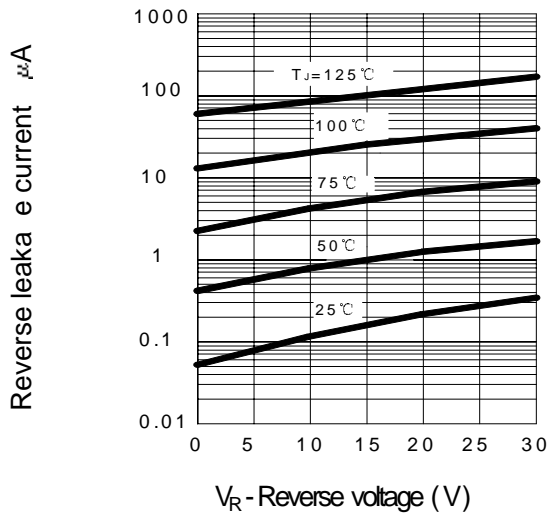


FIG.4 – TYPICAL JUNCTION CAPACITANCE

