



Reverse Voltage: 30Volts
Forward Current:0.2Amps

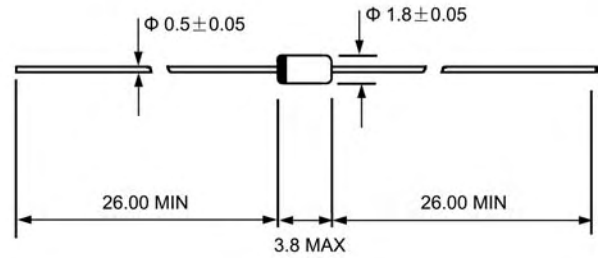
Features

- ◇ For general purpose applications
- ◇ This diode features very low turn-on voltage and fast switching. These devices are protected by a PN junction guard ring against excessive voltage, such as electrostatic discharges

Mechanical Data

- ◇ Case:JEDEC DO--35,glass case
- ◇ Polarity: Color band denotes cathode end
- ◇ Weight: Approx. 0.13 gram

DO - 35(GLASS)



Dimensions in millimeters

ABSOLUTE RATINGS

| | Symbols | Value | UNITS |
|---|-----------|-------------------|------------------|
| Continuous reverse voltage | V_R | 30.0 | V |
| Forward continuous current @ $T_A=25^\circ\text{C}$ | I_F | 200 ¹⁾ | mA |
| Peak forward current @ $T_A=25^\circ\text{C}$ | I_{FM} | 300 ¹⁾ | mA |
| Surge forward current @ $t_p<1\text{s}, T_A=25^\circ\text{C}$ | I_{FSM} | 5 ¹⁾ | A |
| Power dissipation @ $T_A=65^\circ\text{C}$ | P_{tot} | 200 ¹⁾ | mW |
| Junction temperature | T_J | 125 | $^\circ\text{C}$ |
| Ambient operating temperature range | T_A | -55 ----+ 125 | $^\circ\text{C}$ |
| Storage temperature range | T_{STG} | -55 ----+ 150 | $^\circ\text{C}$ |

1) Valid provided that leads at a distance of 4mm from case are kept at ambient temperature

ELECTRICAL CHARACTERISTICS

| | Symbols | Min. | Typ. | Max. | UNITS |
|--|-----------------|------|------|----------------------------|-----------------------|
| Reverse breakdown voltage | V_R | 30.0 | | | V |
| Forward voltage Pulse test $t_p<300\mu\text{s}, \delta<2\%$ @ $I_F=0.1\text{mA}$ @ $I_F=1\text{mA}$ @ $I_F=10\text{mA}$ @ $I_F=30\text{mA}$ @ $I_F=100\text{mA}$ | V_F | | 0.5 | 0.24 0.32 0.4 0.8 | V V V V V |
| Leakage current $V_R=25\text{V}$ | I_R | | | 2.0 | μA |
| Junction capacitance at $V_R=1\text{V}, f=1\text{MHz}$ | C_J | | | 10 | pF |
| Reverse recovery time @ $I_F=10\text{mA}, I_R=10\text{mA}, I_R=1\text{mA}$ | t_{rr} | | | 5 | ns |
| Thermal resistance junction to ambient | $R_{\theta JA}$ | | | 430 ¹⁾ | $^\circ\text{C/W}$ |

1) Valid provided that leads at a distance of 4mm from case are kept at ambient temperature



Ratings AND Characteristic Curves

FIG.1 – ADMISSIBLE POWER DISSIPATION VS. AMBIENT TEMPERATURE

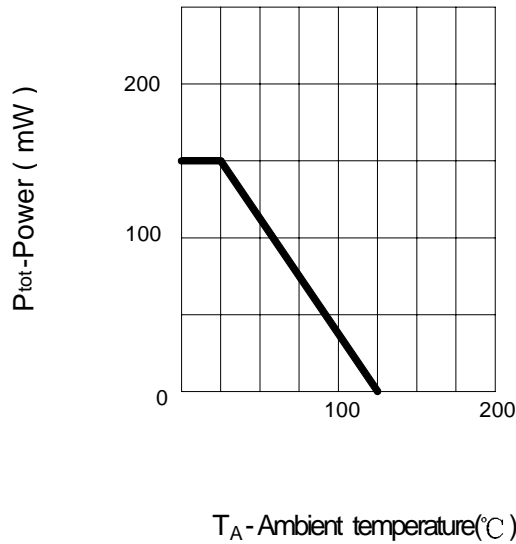


FIG. 2 – TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

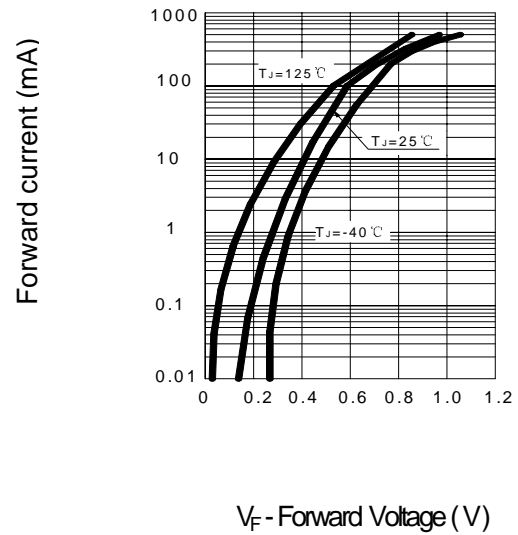


FIG. 3 – TYPICAL REVERSE CHARACTERISTICS

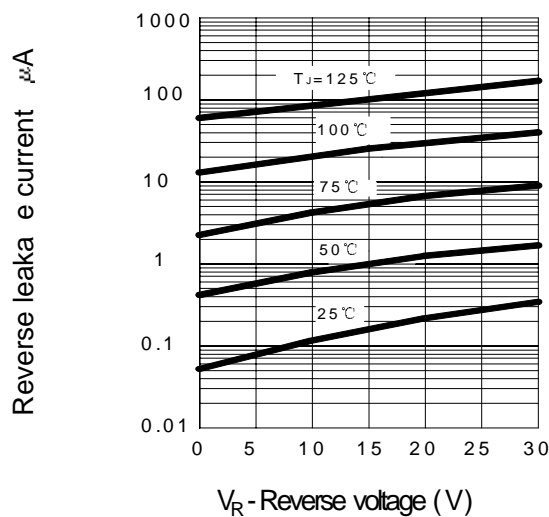
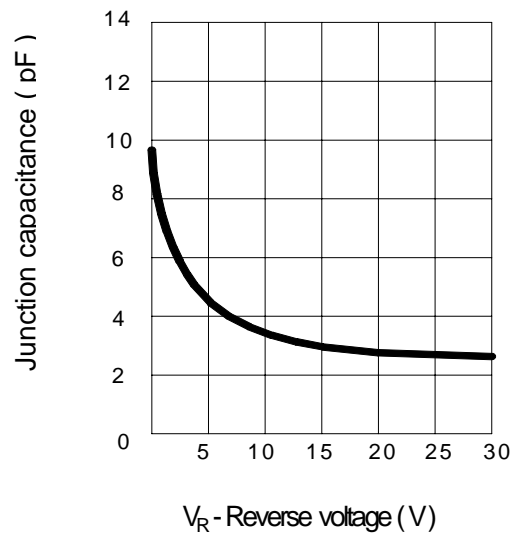


FIG.4 – TYPICAL JUNCTION CAPACITANCE



| PACKAGE | SPQ/PCS | CARTON SPQ/PCS | CARTON SIZE/CM | CARTON GW/KG | CARTON NW/KG |
|---------|-----------|----------------|----------------|--------------|--------------|
| DO-35 | 5000/AMMO | 100000 | 41X28.5X38 | 14.57 | 13.07 |