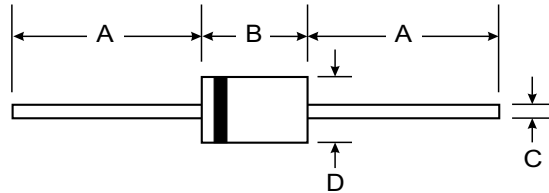


Features

- High Voltage to 3000V with Low Leakage
- 1.5kV to 3kV V_{RRM}
- Surge Ratings of 25A - 30A
- Plastic Material - UL Flammability Classification Rating 94V-0

Mechanical Data

- Case: Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 0.35 grams (approx.)
- Mounting Position: Any
- Marking: Type Number



| DO-41 Plastic | | |
|----------------------|-------|-------|
| Dim | Min | Max |
| A | 25.40 | — |
| B | 4.06 | 5.21 |
| C | 0.71 | 0.884 |
| D | 2.00 | 2.72 |
| All Dimensions in mm | | |

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

Single phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

| Characteristic | Symbol | R1500 | R2000 | R3000 | Unit |
|---|---------------------------------|-------------|-------|----------|------------------|
| Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage | V_{RRM} V_{RWM} V_R | 1500 | 2000 | 3000 | V |
| RMS Reverse Voltage | $V_{R(RMS)}$ | 1050 | 1400 | 2100 | V |
| Average Rectified Output Current (Note 1) @ $T_L = 55^\circ\text{C}$ | I_O | 500 | | 200 | mA |
| Non-Repetitive Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) | I_{FSM} | 30 | | 25 | A |
| Forward Voltage @ $I_F = 500\text{mA}$ @ $I_F = 200\text{mA}$ | V_{FM} | 2.0 — | | — 3.0 | V |
| Peak Reverse Leakage Current at Rated DC Blocking Voltage | I_{RM} | 5.0 | | | μA |
| Typical Junction Capacitance (Note 2) | C_j | 8.0 | | 7.0 | pF |
| Typical Thermal Resistance Junction to Ambient | $R_{\theta JA}$ | 70 | | 117 | K/W |
| Operating and Storage Temperature Range | T_J, T_{STG} | -65 to +125 | | | $^\circ\text{C}$ |

- Notes: 1. Valid provided that leads are kept at ambient temperature at a distance of 9.5mm from the case.
2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

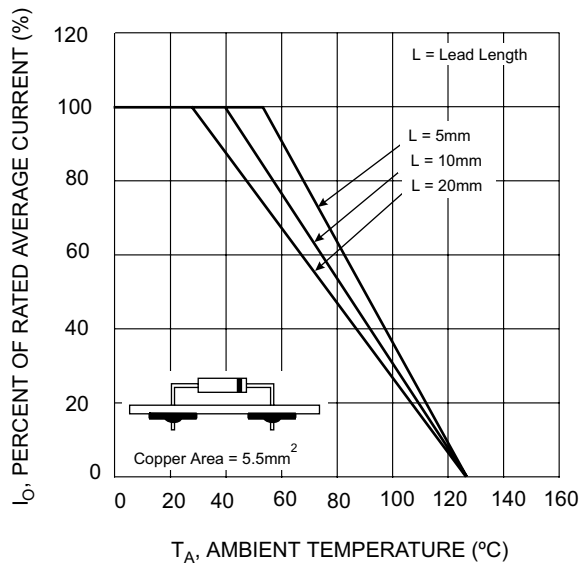


Fig. 1 Current Derating for Various Lead Lengths

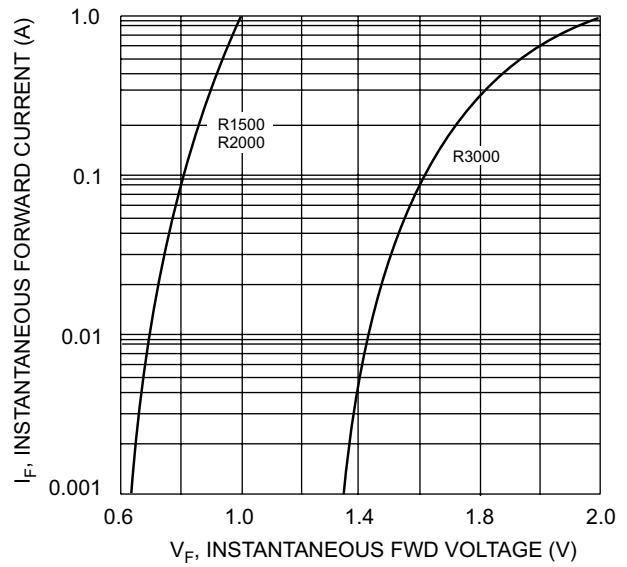


Fig. 2 Typical Forward Characteristics

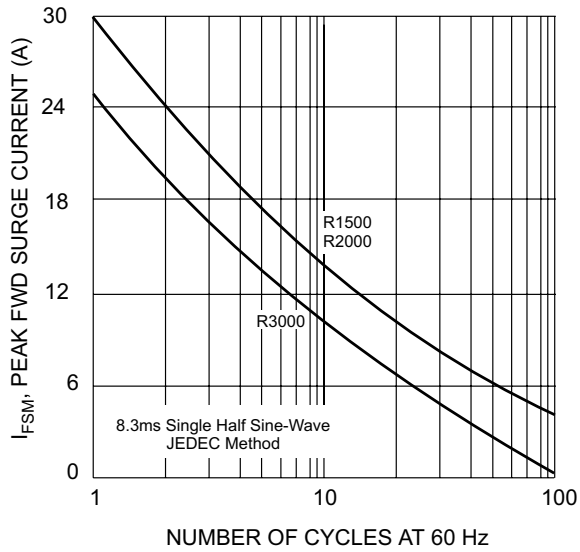


Fig. 3 Peak Fwd Surge Current vs # of Cycles @ 60 Hz

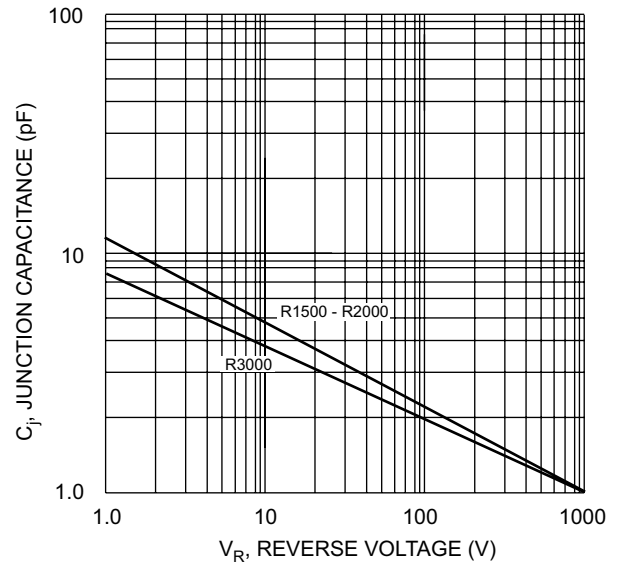


Fig. 4 Typical Junction Capacitance