

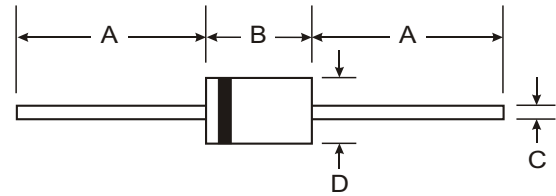
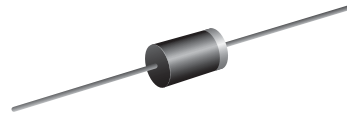
VOLTAGE RANGE: 50 - 1000V
CURRENT: 1.0 A

Features

- Diffused Junction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability

Mechanical Data

- Case: DO - 41
- 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 | | |
|----------------------|-------|-------|
| Dim | Min | Max |
| A | 25.40 | — |
| B | 4.06 | 5.21 |
| C | 0.71 | 0.864 |
| D | 2.00 | 2.72 |
| All Dimensions in mm | | |

Maximum Ratings and Electrical Characteristics T_A = 25°C unless otherwise specified

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

| Characteristic | Symbol | P100A | P100B | P100D | P100G | P100J | P100K | P100M | Unit |
|-----------------------------------------------------------------------------------------------------------------|---------------------|-------------|-------|-------|-------|-------|-------|-------|------|
| Peak Repetitive Reverse Voltage | V _{RRM} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Working Peak Reverse Voltage | V _{VRWM} | | | | | | | | |
| DC Blocking Voltage | V _R | | | | | | | | |
| RMS Reverse Voltage | V _{R(RMS)} | 35 | 70 | 140 | 280 | 420 | 560 | 700 | V |
| Average Rectified Output Current (Note 1) @ T _A = 75°C | I _O | 1.0 | | | | | | | A |
| Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method) | I _{FSM} | 30 | | | | | | | A |
| Forward Voltage @ I _F = 1.0A | V _{FM} | 1.0 | | | | | | | V |
| Peak Reverse Current @ T _A = 25°C | I _{RM} | 5.0 | | | | | | | μA |
| At Rated DC Blocking Voltage @ T _A = 100°C | | 50 | | | | | | | |
| Typical Junction Capacitance (Note 2) | C _j | 15 | | | | | | | pF |
| Typical Thermal Resistance Junction to Ambient (Note 1) | R _{θJA} | 50 | | | | | | | K/W |
| Operating Temperature Range | T _j | -65 to +125 | | | | | | | °C |
| Storage Temperature Range | T _{STG} | -65 to +150 | | | | | | | °C |

Note: 1. Leads maintained at ambient temperature at a distance of 9.5mm from the case
 2. Measured at 1.0 MHz and Applied Reverse Voltage of 4.0V D.C.

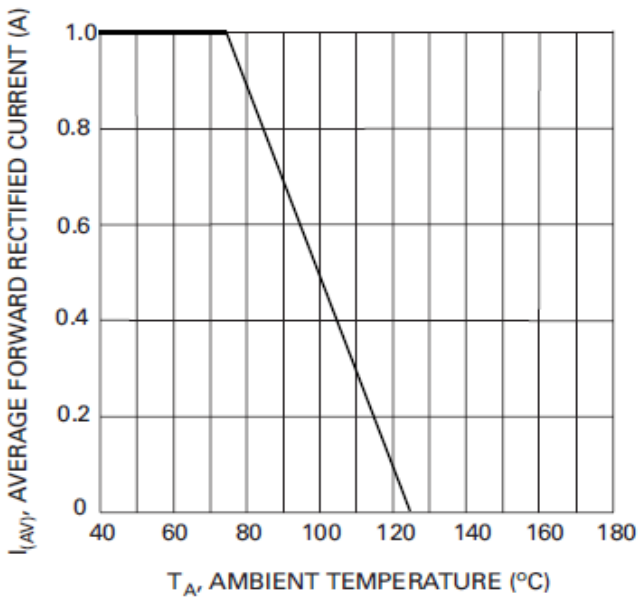


Fig. 1 Forward Current Derating Curve

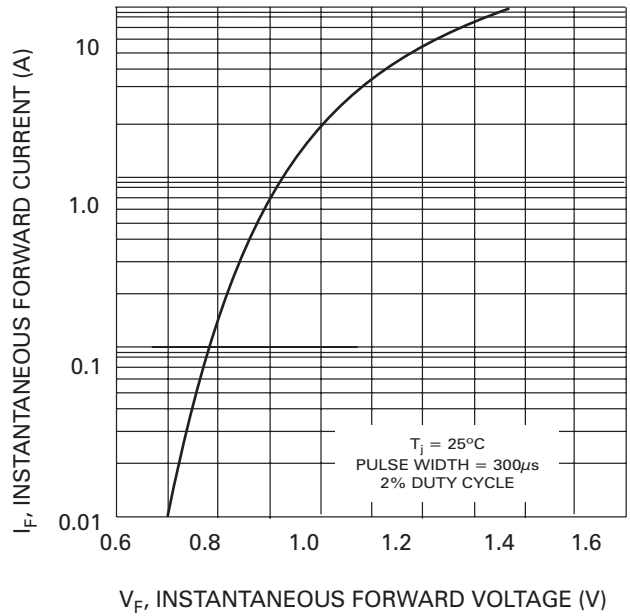


Fig. 2 Typical Forward Characteristics

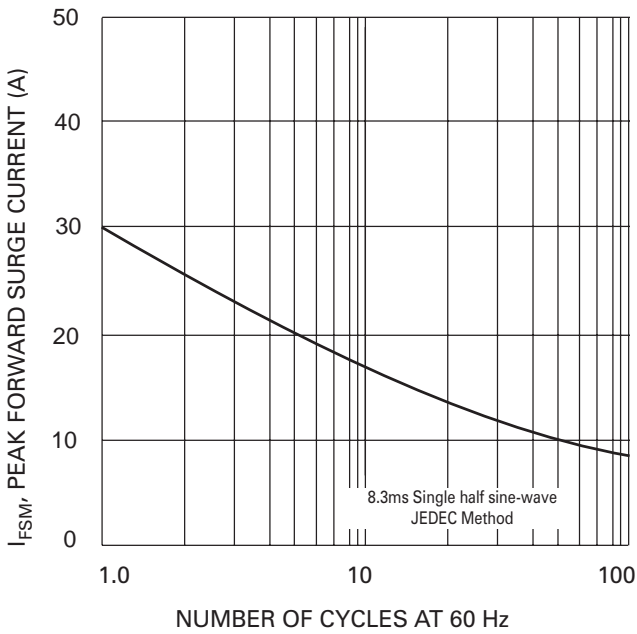


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

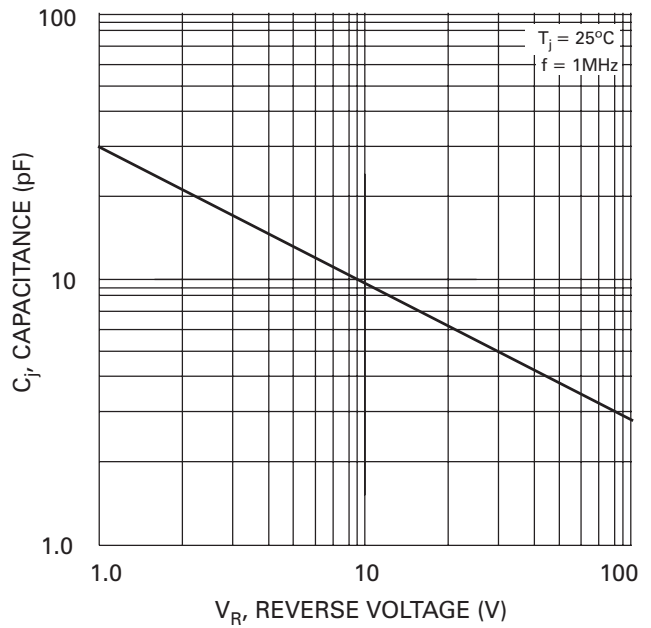


Fig. 4 Typical Junction Capacitance