

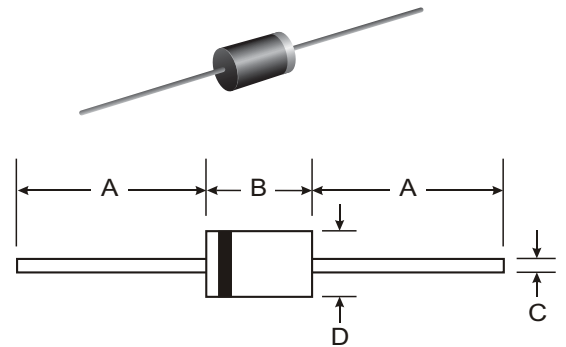
VOLTAGE RANGE: 2500 - 4000V
CURRENT: 0.2 A

Features

- Low cost
- Low leakage
- Low forward voltage drop
- High current capability
- Easily cleaned with alcohol, Isopropanol and similar solvents

Mechanical Data

- Case: DO - 41 Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 0.34 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%.

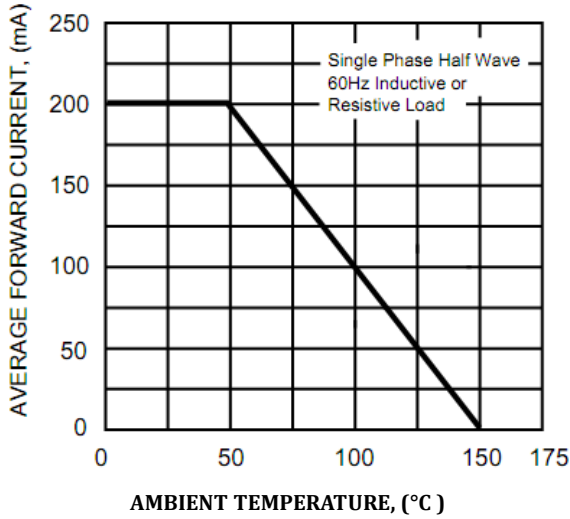
| Characteristic | | Symbols | RFC2K | RFC3K | RFC4K | Units |
|---|--------------------------|-----------------------------------|-------------|-------|-------|-------|
| Peak Repetitive Reverse Voltage | | V _{RRM} | | | | |
| Working Peak Reverse Voltage | | V _{RWM} | 2000 | 3000 | 4000 | V |
| DC Blocking Voltage | | V _R | | | | |
| RMS Reverse Voltage | | V _{R(RSM)} | 1400 | 2100 | 2800 | V |
| Average Output Current (Note 1) | @ T _L = 50°C | I _O | 200 | | | mA |
| 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 = 200mA | V _{FM} | 4.0 | 5.0 | 6.5 | V |
| Peak Reverse Leakage Current at Rated DC Blocking Voltage | @ T _A = 25°C | I _{RM} | 5.0 | | | uA |
| | @ T _A = 100°C | | 100 | | | |
| Typical Junction Capacitance (Note 2) | | C _J | 30 | | | pF |
| Maximum Reverse Recovery Time (Note 3) | | T _{RR} | 500 | | | nS |
| Operating and Storage Temperature Range | | T _J , T _{STG} | -65 to +150 | | | °C |

Notes: 1. Valid provided that leads are kept at ambient temperature at a distance of 9.5mm from the case.

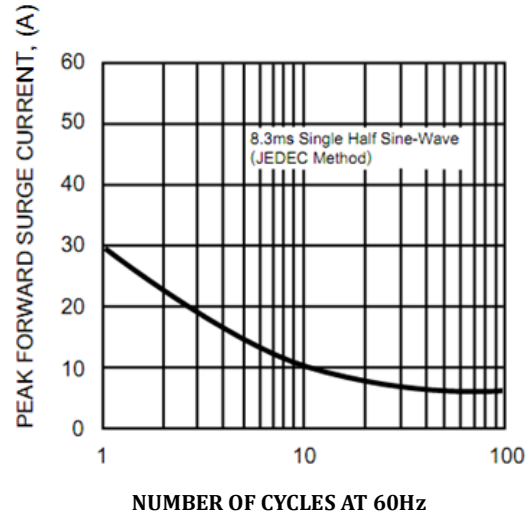
2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

3. Test Conditions: I_F = 0.5A, I_R = 1.0A, I_{RR} = 0.25A

TYPICAL FORWARD CURRENT DERATING CURVE

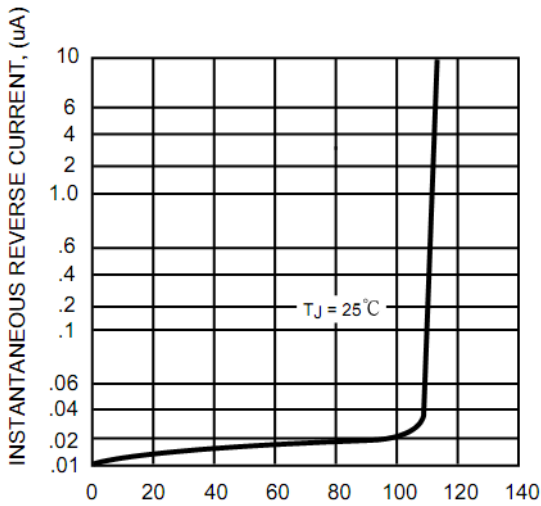


MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

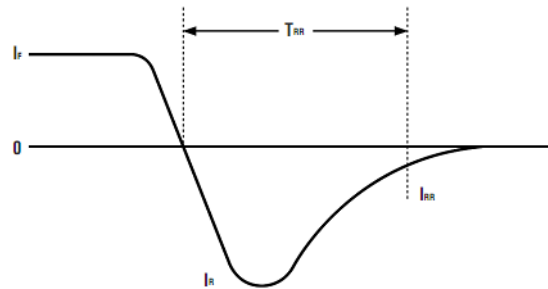


TYPICAL REVERSE CHARACTERISTICS

PERCENT OF RATED PEAK REVERSE VOLTAGE, (%)



REVERSE RECOVERY MEASUREMENT WAVEFORM



Typical data capture points: $I_f = 0.5I_R$, $I_R, I_{RR} = 0.25I_R$
 I_R is typically the rated average forward current maximum (I_{FAVM}) of the D.U.T