

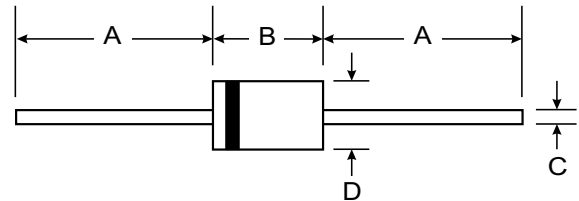
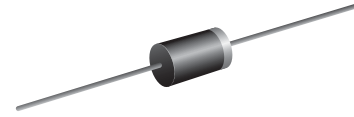
VOLTAGE RANGE: 50 - 200V
CURRENT: 2.0 A

Features

- Low power loss
- High surge capability
- Glass passivated chip junction
- Ultra-fast recovery time for high efficiency
- High temperature soldering guaranteed
- 250°C/10sec/0.375" lead length at 5 lbs tension

Mechanical Data

- Case : DO-15 Molded plastic
- Epoxy : UL94V-O rate flame retardant
- Lead : Axial lead solderable per MIL-STD-202, Method 208 guaranteed
- Polarity : Color band denotes cathode end
- Mounting position : Any
- Weight : 0.465 gram



| DO-15 | | |
|----------------------|-------|-------|
| Dim | Min | Max |
| A | 25.40 | — |
| B | 5.50 | 7.62 |
| C | 0.686 | 0.889 |
| D | 2.60 | 3.60 |
| 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 | UG2A | UG2B | UG2C | UG2D | Unit |
|--|-----------------------------------|--------------|------|------|------|----------|
| Maximum Recurrent Peak Reverse Voltage | V _{rrm} | 50 | 100 | 150 | 200 | V |
| Maximum RMS Voltage | V _{rms} | 35 | 70 | 105 | 140 | V |
| Maximum DC blocking Voltage | V _{dc} | 50 | 100 | 150 | 200 | V |
| Maximum Average Forward Rectified Current 3/8" lead length at T _a =75°C | I _{f(av)} | 2.0 | | | | A |
| Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load | I _{fsm} | 80.0 | | | | A |
| Maximum Forward Voltage at Forward current 2.0A Peak | V _f | 0.95 | | | | V |
| Maximum DC Reverse Current T _a =25°C at rated DC blocking voltage T _a =120°C | I _r | 5.0 200.0 | | | | μA μA |
| Maximum Reverse Recovery Time (Note 1) | T _{rr} | 15 | | | | nS |
| Typical Junction Capacitance (Note 2) | C _j | 15 | | | | pF |
| Typical Thermal Resistance (Note 3) | R(ja) | 45 | | | | °C/W |
| Storage and Operating Junction Temperature | T _{stg} , T _j | -55 to +150 | | | | °C |

- Note:**
1. Reverse Recovery Condition I_f = 0.5A, I_r =1.0A, I_{rr} =0.25A
 2. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
 3. Thermal Resistance from Junction to Ambient at 3/8" lead length, P.C. Board Mounted

RATINGS AND CHARACTERISTIC CURVES UG2A THRU UG2D

FIG. 1 - MAXIMUM FORWARD CURRENT DERATING CURVES

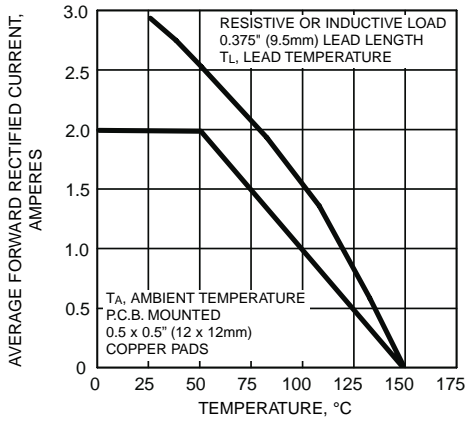


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

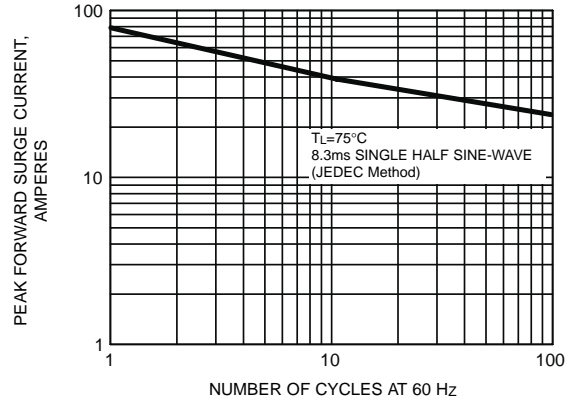


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

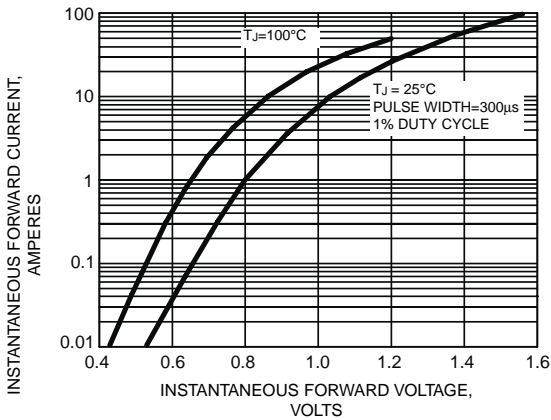


FIG. 4 - TYPICAL REVERSE LEAKAGE CHARACTERISTICS

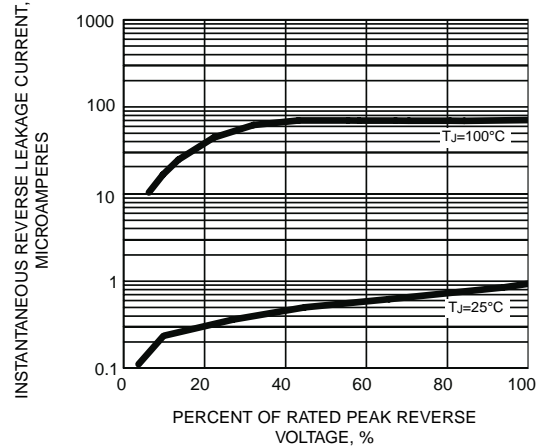


FIG. 5 - REVERSE SWITCHING CHARACTERISTICS

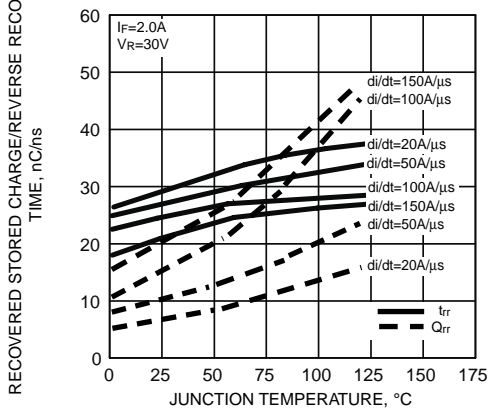


FIG. 6 - TYPICAL JUNCTION CAPACITANCE

