

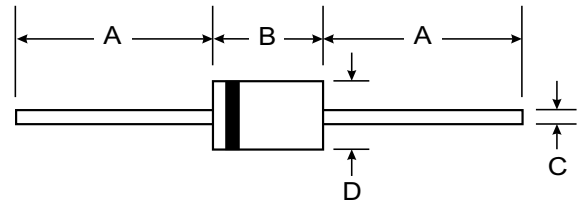
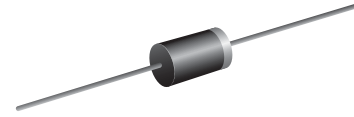
VOLTAGE RANGE: 50 - 200V
CURRENT: 2.0 A

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

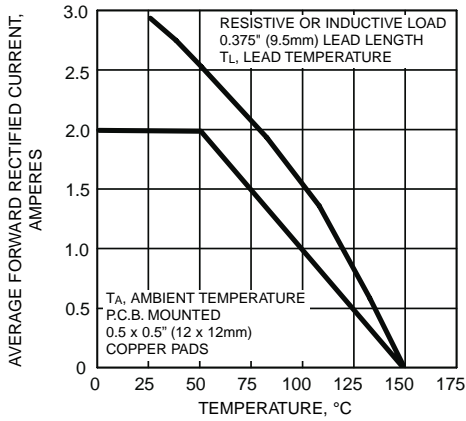


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

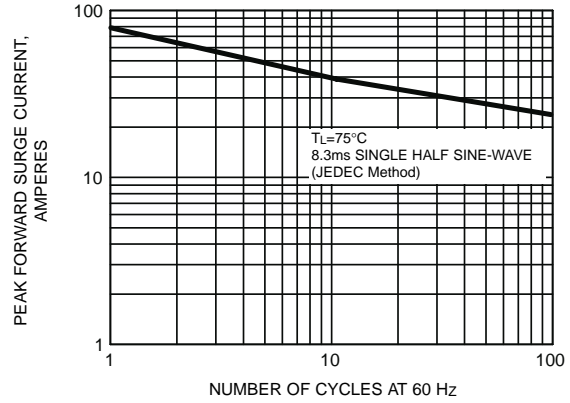


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

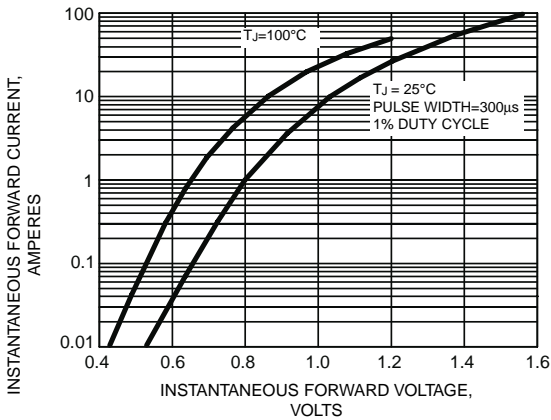


FIG. 4 - TYPICAL REVERSE LEAKAGE CHARACTERISTICS

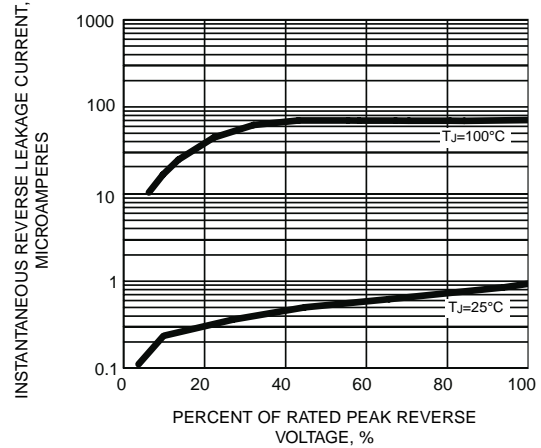


FIG. 5 - REVERSE SWITCHING CHARACTERISTICS

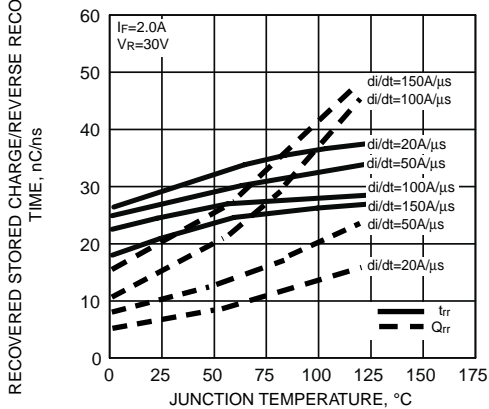


FIG. 6 - TYPICAL JUNCTION CAPACITANCE

