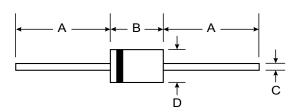


UG2001 - UG2005

2.0A ULTRA-FAST GLASS PASSIVATED RECTIFIER

Features

- Glass Passivated Die Construction
- Diffused Junction
- Ultra-Fast Switching for High Efficiency
- High Current Capability and Low Forward Voltage Drop
- Surge Overload Rating to 60A Peak
- Low Reverse Leakage Current
- 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
Marking: Type Number
Weight: 0.4 grams (approx.)
Mounting Position: Any

DO-15						
Dim	Min	Max				
Α	25.40	_				
В	5.50	7.62				
С	0.686	0.889				
D	2.60	3.6				
All Dimensions in mm						

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

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

Characteristic	Symbol	UG2001	UG2002	UG2003	UG2004	UG2005	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	50	100	200	400	600	V
RMS Reverse Voltage	V _{R(RMS)}	35	70	140	280	420	٧
Average Rectified Output Current (Note 1) @ T _A = 55°C		2.0					Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	60			А		
Forward Voltage @ I _F = 2.0A	V _{FM}		1.0		1.3	1.7	٧
Peak Reverse Current		8.0 100					μА
Reverse Recovery Time (Note 3)		50					ns
Typical Junction Capacitance (Note 2)		20 10				10	pF
Typical Thermal Resistance Junction to Ambient		50					K/W
Operating and Storage Temperature Range		-65 to +150					°C

Notes:

- 1. Valid provided that leads are maintained 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. Measured with I_F = 0.5A, I_R = 1.0A, I_{rr} = 0.25A. See figure 5.

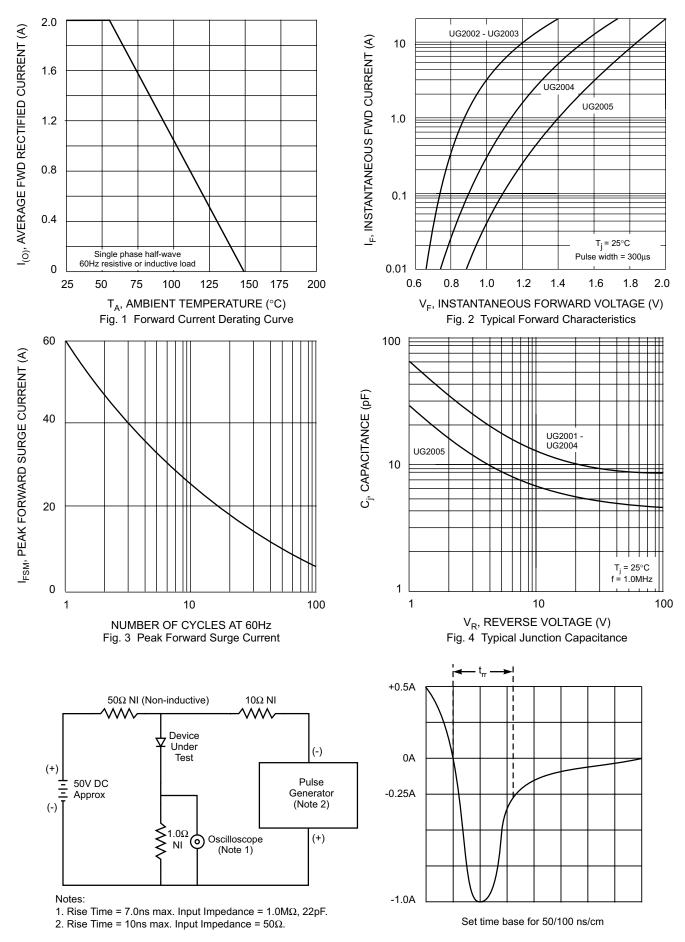


Fig. 5 Reverse Recovery Time Characteristic and Test Circuit