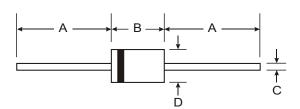


PR3001G - PR3007G

3.0A FAST RECOVERY GLASS PASSIVATED RECTIFIER

Features

- Glass Passivated Die Construction
- **Diffused Junction**
- Fast Switching for High Efficiency
- High Current Capability and Low Forward Voltage Drop
- Surge Overload Rating to 125A 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: 1.12 grams (approx.)

DO-201AD								
Dim	Min	Max						
Α	25.40	_						
В	7.20	9.50						
С	1.20	1.30						
D	4.80	5.30						
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	PR 3001G	PR 3002G	PR 3003G	PR 3004G	PR 3005G	PR 3006G	PR 3007G	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		V _{RRM} V _{RWM} V _R	50	100	200	400	600	800	1000	٧
RMS Reverse Voltage		V _{R(RMS)}	35	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1) @ T _A = 55°C		lo	3.0						Α	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave Superimposed on Rated Load (JEDEC Method)		I _{FSM}	125						Α	
Forward Voltage	ard Voltage @ I _F = 3.0A		1.3						V	
Peak Reverse Current @ $T_A = 25^{\circ}C$ at Rated DC Blocking Voltage @ $T_A = 125^{\circ}C$		I _{RM}	5.0 100						μА	
Reverse Recovery Time (Note 3)		t _{rr}	150		250		500		ns	
Typical Junction Capacitance (Note 2)		Cj	50						pF	
Typical Thermal Resistance Junction to Ambient		$R_{\theta JA}$	32						K/W	
Operating and Storage Temperature Range		T _j , T _{STG}	-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 = 1A, I_{rr} = 0.25A. See figure 5.



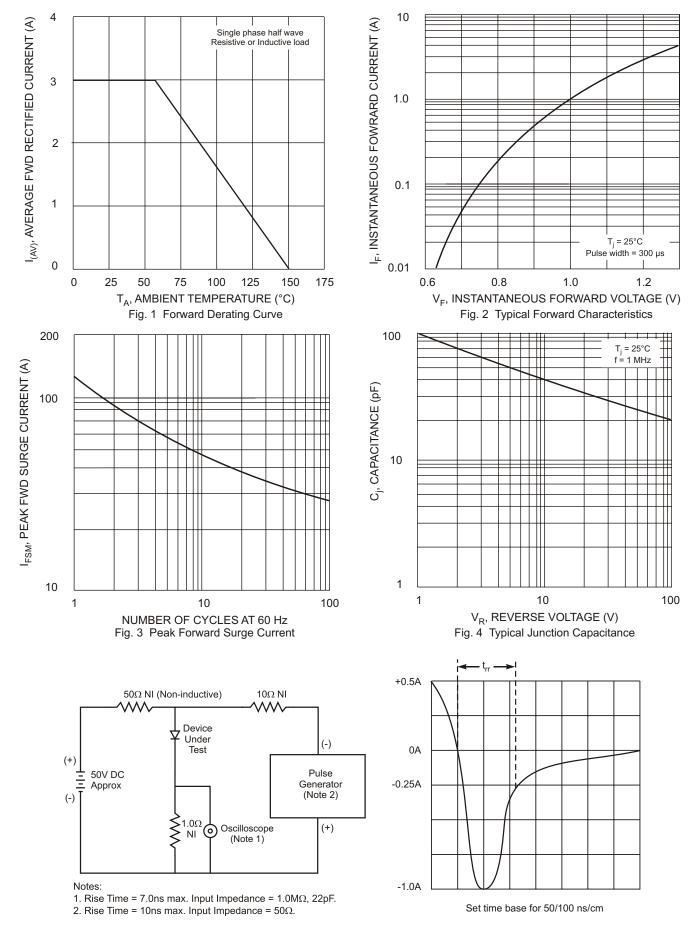


Fig. 5 Reverse Recovery Time Characteristic and Test Circuit