

PR1501G/S - PR1507G/S

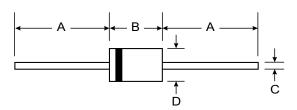
1.5A FAST RECOVERY GLASS PASSIVATED RECTIFIER

Features

- Glass Passivated Die Construction
- Diffused Junction
- Fast Switching for High Efficiency
- High Current Capability and Low Forward Voltage Drop
- Surge Overload Rating to 50A 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
- DO-41 Weight: 0.35 grams (approx.)
- DO-15 Weight: 0.40 grams (approx.)



	DO	-41	DO-15					
Dim	Min	Max	Min	Max				
Α	25.40	—	25.40	—				
В	4.06	5.21	5.50	7.62				
С	0.71	0.864	0.686	0.889				
D	2.00	2.72	2.60	3.60				
All Dimensions in mm								

"GS" Suffix Designates DO-41 Package "G" Suffix Designates DO-15 Package

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		PR1501 G/GS	PR1502 G/GS	PR1503 G/GS	PR1504 G/GS	PR1505 G/GS	PR1506 G/GS	PR1507 G/GS	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		50	100	200	400	600	800	1000	V
RMS Reverse Voltage		35	70	140	280	420	560	700	V
Average Rectified Output Current @ $T_A = 55^{\circ}C$ (Note 1)	lo	1.5							А
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave Superimposed on Rated Load (JEDEC Method)		50							A
Forward Voltage @ I _F = 1.5A		1.3							V
Peak Reverse Current@ $T_A = 25^{\circ}C$ at Rated DC Blocking Voltage@ $T_A = 100^{\circ}C$		5.0 200							μ A
Reverse Recovery Time (Note 3)		150			250 500		00	ns	
Typical Junction Capacitance (Note 2)		25							pF
Typical Thermal Resistance Junction to Ambient		65							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} = 0.2 5A. See figure 5.

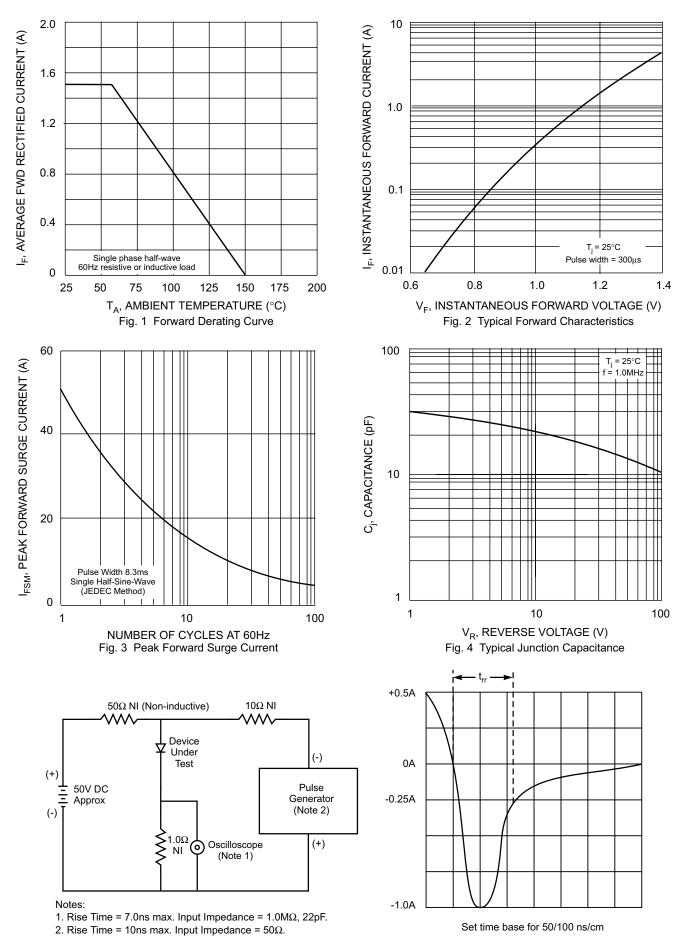


Fig. 5 Reverse Recovery Time Characteristic and Test Circuit