

PR1501/S - PR1505/S

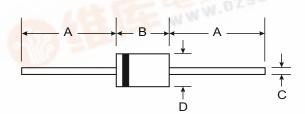
1.5A FAST RECOVERY RECTIFIER

Features

- 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 BandMarking: Type Number
- DO-41 Weight: 0.3 grams (approx.)
- DO-15 Weight: 0.4 grams (approx.)



	DO-41	Plastic	DO-15				
Dim	Min	Min Max I		Max			
Α	25.40		25.40	-790			
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							

"S" Suffix Designates DO-41 Package No Suffix Designates DO-15 Package

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		PR 1501/S	PR 1502/S	PR 1503/S	PR 1504/S	PR 1505/S	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		50	100	200	400	600	V
RMS Reverse Voltage		35	70	140	280	420	V
Average Rectified Output Current (Note 1) @ T _A = 50°C		1.5					Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave Superimposed on Rated Load (JEDEC Method)		50					А
Forward Voltage @ I _F = 1.5A		1.2					V
Peak Reverse Current @ T _A = 25°C at Rated DC Blocking Voltage @ T _A = 100°C		5.0 100					μА
Reverse Recovery Time (Note 3)		150 250			250	ns	
Typical Junction Capacitance (Note 2)		20 10				10	pF
Typical Thermal Resistance Junction to Ambient		35					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.



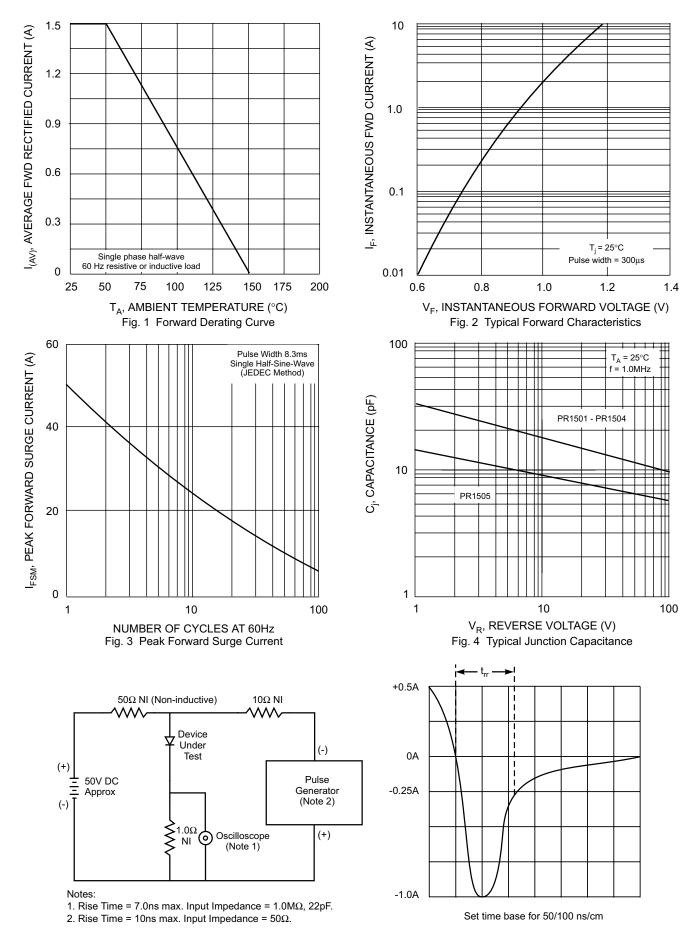


Fig. 5 Reverse Recovery Time Characteristic and Test Circuit