

PR2001 - PR2005

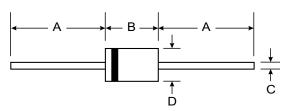
2.0A FAST RECOVERY RECTIFIER

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 Band
- Marking: Type Number
- Weight: 0.4 grams (approx.)



DO-15							
Dim	Min	Мах					
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 @ 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 2001	PR 2002	PR 2003	PR 2004	PR 2005	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		V _{RRM} V _{RWM} VR	50	100	200	400	600	v
RMS Reverse Voltage		V _{R(RMS)}	35	70	140	280	420	V
Average Rectified Output Current (Note 1)		lo	2.0					Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave Superimposed on Rated Load (JEDEC Method)		I _{FSM}	50					А
Forward Voltage	rward Voltage @ I _F = 2.0A		1.2					V
Peak Reverse Current@ $T_A = 25^{\circ}C$ at Rated DC Blocking Voltage@ $T_A = 100^{\circ}C$		I _{RM}	5.0 100					μΑ
Reverse Recovery Time (Note 3)		t _{rr}	150 250				250	ns
Typical Junction Capacitance (Note 2)		Cj	35 15					pF
Typical Thermal Resistance Junction to Ambient		R _{0JA}	50					K/W
Operating and Storage Temperature Range		Tj, TSTG	-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 4.0 V DC.
- 3. Measured with I_F = 0.5A, I_R = 1.0A, I_{rr} = 0.25A. See figure 5.

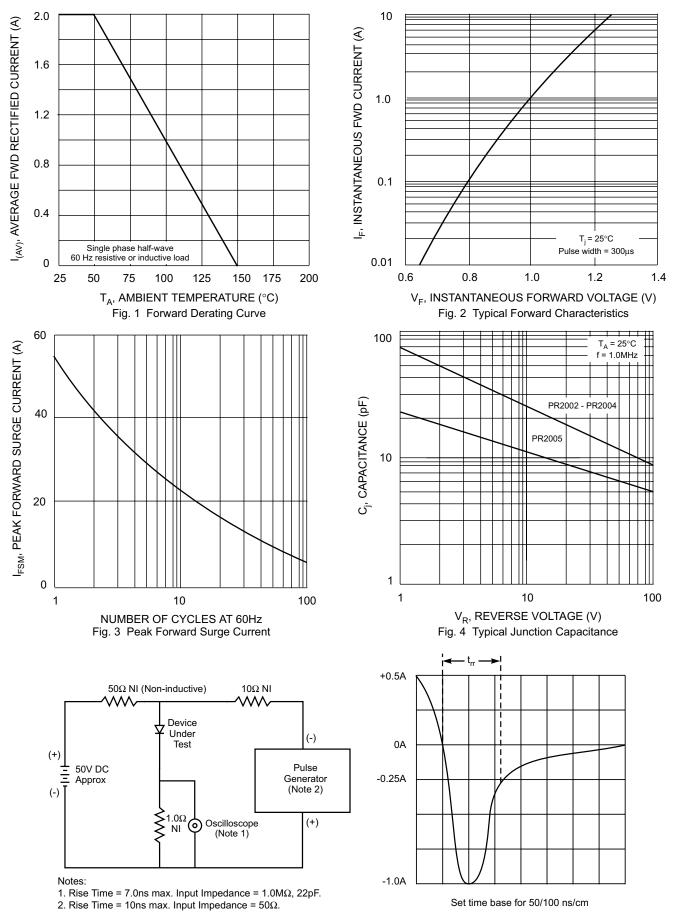


Fig. 5 Reverse Recovery Time Characteristic and Test Circuit