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## 捷多邦,专业PCB打样工厂,24小时加急出货

# PR2001 - PR2005

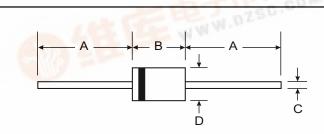
## 2.0A FAST RECOVERY RECTIFIER

#### 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	Max					
Α	25.40	4 Q. 4V 1					
В	5.50	7.62					
С	0.686	0.889					
D	2.60	3.6					
All Di	All Dimensions in mm						

### Maximum Ratings and Electrical Characteristics @ T<sub>A</sub> = 25°C unless otherwise specified

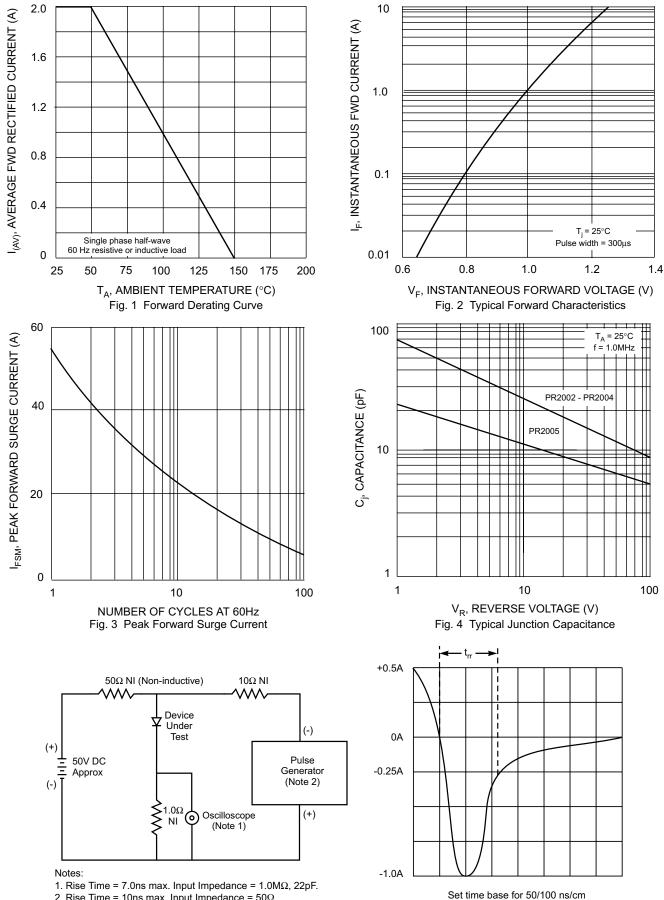
Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic		Symbol	PR 2001	PR 2002	PR 2003	PR 2004	PR 2005	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	-13	V <sub>RRM</sub> V <sub>RWM</sub> V <sub>R</sub>	50	100	200	400	600	V
RMS Reverse Voltage	270 10	V <sub>R(RMS)</sub>	35	70	140	280	420	V
Average Rectified Output Current (Note 1)	@ T <sub>A</sub> = 50°C	Ιο	2.0					
Non-Repetitive Peak Forward Surge Cu 8.3ms Single half sine-wave Superimpo (JEDEC Method)		I <sub>FSM</sub>	50				A	
Forward Voltage	@ I <sub>F</sub> = 2.0A	V <sub>FM</sub>	1.2				V	
Peak Reverse Current at Rated DC Blocking Voltage	@ $T_A = 25^{\circ}C$ @ $T_A = 100^{\circ}C$	I <sub>RM</sub>	5.0				50.00	μA
Reverse Recovery Time (Note 3)		t <sub>rr</sub>	-	1:	50	MALL	250	ns
Typical Junction Capacitance (Note 2)		Cj	190	3	5		15	pF
Typical Thermal Resistance Junction to Ambient		R <sub>0JA</sub>	50					
Operating and Storage Temperature Range		T <sub>i</sub> , T <sub>STG</sub>	-65 to +150					°C



- 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.





2. Rise Time = 10ns max. Input Impedance =  $50\Omega$ .

Fig. 5 Reverse Recovery Time Characteristic and Test Circuit