

# PR1001G thru PR1007G

# FAST RECOVERY GLASS PASSIVATED RECTIFIERS

REVERSE VOLTAGE - 50 to 1000 Volts FORWARD CURRENT - 1.0 Ampere

#### **FEATURES**

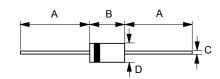
- Fast switching for high efficiency
- Glass passivated chip
- Low reverse leakage current
- Low forward voltage drop
- High current capability
- Plastic material has UL flammability classification 94V-0

#### **MECHANICAL DATA**

Case: JEDEC DO-41 molded plastic
Polarity: Color band denotes cathode
Weight: 0.012 ounces, 0.34 grams

• Mounting position : Any

### DO-41



	DO-41					
Dim.	Min.	Max.				
Α	25.4	-				
В	4.10	5.20				
С	0.71 Ø	0.86 Ø				
D	2.00 Ø	2.70 Ø				
All Dimensions in millimeter						

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

CHARACTERISTICS	SYMBOL	PR 1001G	PR 1002G	PR 1003G	PR 1004G	PR 1005G	PR 1006G	PR 1007G	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @TA=55°C	I(AV)	1.0							Α
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load	IFSM	30							Α
Maximum forward Voltage at 1.0A DC	VF				1.3				V
Maximum DC Reverse Current at Rated DC Blocking Voltage @Ta=25℃  @Ta=25℃	l <sub>R</sub>	5					uA		
	IK I	50						uA	
Typical Junction Capacitance (Note 1)	Cì	15						pF	
	Reja	50					°C/W		
Typical Thermal Resistance (Note 2)	Rejl	15							
	Rejc	20							
Maximum Reverse Recovery Time (Note 3)	TRR		150			250	50	0	ns
Operating Temperature Range	TJ	-55 to +150						°C	
Storage Temperature Range	Tstg	-55 to +150						°C	

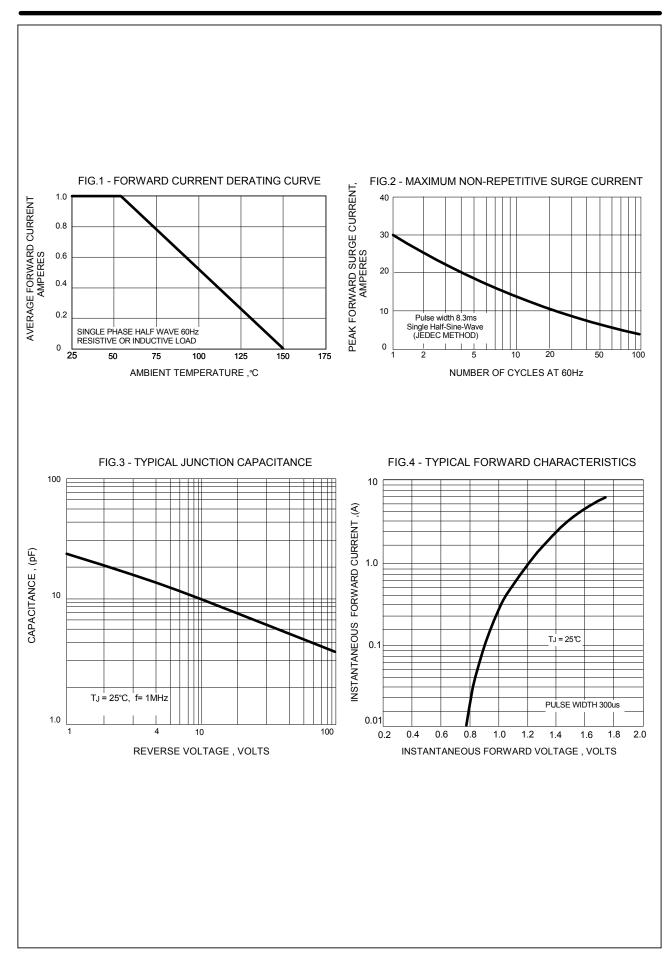
NOTES: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0 V DC.

2. Thermal Resistance Junction to Ambient, Lead and Case.

 $3. Reverse\ Recovery\ Test\ Conditions: IF = 0.5A, IR = 1A, IRR = 0.25A.$ 

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