



# PR1004G-PR1007G(LS)

### FAST RECOVERY GLASS PASSIVATED RECTIFIERS

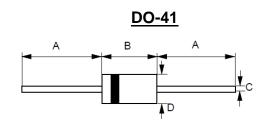
#### FEATURES

- 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
- Available in "Green" Package: DO-41
- Lead-Free Finish; RoHS Compliant (Notes 1 & 2)
- Halogen and Antimony Free. "Green" Device (Note 3)

#### **MECHANICAL DATA**

- Package: JEDEC DO-41 molded plastic
- · Polarity: Color band denotes cathode
- Weight: 0.34 grams
- Mounting position: Any





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

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

PARAMETER	SYMBOL	PR1004G	PR1005G	PR1006G	PR1007G	UNIT
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	400	600	800	1000	V
Maximum RMS Voltage		280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	400	600	800	1000	V
Maximum Average Forward Rectified Current @T <sub>A</sub> =55°C	I <sub>(AV)</sub>	1.0			А	
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load (JEDEC METHOD)	I <sub>FSM</sub>	30			А	
Maximum Forward Voltage at 1.0A DC	VF		1	.3		V
Maximum DC Reverse Current $@T_A = 25^{\circ}C$ at Rated DC Blocking Voltage $@T_A = 100^{\circ}C$	I <sub>R</sub>	5.0 uA 50 uA				uA
Typical Junction Capacitance (Note 4)	CT		1	5		pF
Typical Thermal Resistance (Note 5)	R <sub>thJA</sub> R <sub>thJL</sub> R <sub>thJC</sub>	50 15 20				°C/W
Maximum Reverse Recovery Time (Note 6)	t <sub>rr</sub>	150	250	5	00	ns
Operating Temperature Range	TJ	-55 to +150			°C	
Storage Temperature Range		-55 to +150			°C	

#### Note:

1. EU Directive 2002/95/EC (RoHS), 2011/65/EU (RoHS 2) & 2015/863/EU (RoHS 3) compliant. All applicable RoHS exemptions applied.

2. See https://www.diodes.com/quality/lead-free/ for more information about Diodes Incorporated's definitions of Halogen- and Antimony-free, "Green" and Lead-free.

3. Halogen- and Antimony-free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

4. Measured at 1.0MHz and applied reverse voltage of 4.0V DC

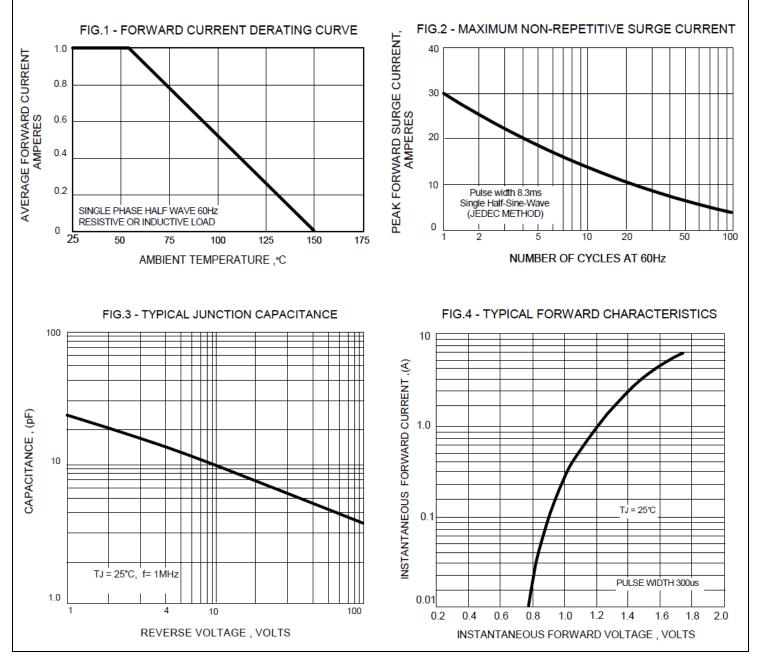
5. Thermal Resistance Junction to Ambient, Lead and Case.

6. Reverse Recovery Test Conditions: I<sub>F</sub>=0.5A, I<sub>R</sub>=1A, I<sub>rr</sub>=0.25A.



A Product Line of Diodes Incorporated

## LITE-ON SEMICONDUCTOR



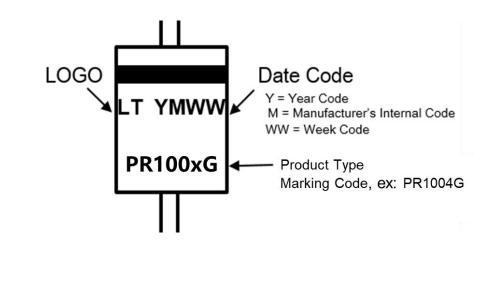


## LITE-ON SEMICONDUCTOR

# Ordering Information:

Part Number	Daelyaga	Packing		
	Package	Qty.	Carrier	
PR1004G_HF	DO-41	5000	Reel	
PR1005G_HF	DO-41	5000	Reel	
PR1006G_HF	DO-41	5000	Reel	
PR1007G_HF	DO-41	5000	Reel	
PR1004G_HF-A52	DO-41	3000	Ammo 52	
PR1006G_HF-A52	DO-41	3000	Ammo 52	
PR1007G_HF-A52	DO-41	3000	Ammo 52	

# Marking Information:





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