



PR1004G-PR1007G(LS)

FAST RECOVERY GLASS PASSIVATED RECTIFIERS

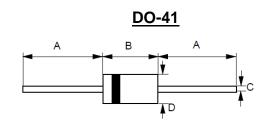
FEATURES

- 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 _{RRM}	400	600	800	1000	V
Maximum RMS Voltage		V _{RMS}	280	420	560	700	V
Maximum DC Blocking Voltage		V _{DC}	400	600	800	1000	V
Maximum Average Forward Rectified Current	@T _A =55°C	I _(AV)	1.0			А	
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load (JEDEC METHOD)		I _{FSM}	30			А	
Maximum Forward Voltage at 1.0A DC		VF	1.3				V
Maximum DC Reverse Current at Rated DC Blocking Voltage	@T _A =25°C @T _A =100°C	I _R	5.0 uA 50			uA	
Typical Junction Capacitance (Note 4)		CT	15				pF
Typical Thermal Resistance (Note 5)		R _{thJA} R _{thJL} R _{thJC}	50 15 20			°C/W	
Maximum Reverse Recovery Time (Note 6)		t _{rr}	150	250	5	00	ns
Operating Temperature Range		TJ	-55 to +150			°C	
Storage Temperature Range		T _{STG}	-55 to +150			°C	

Note:

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.

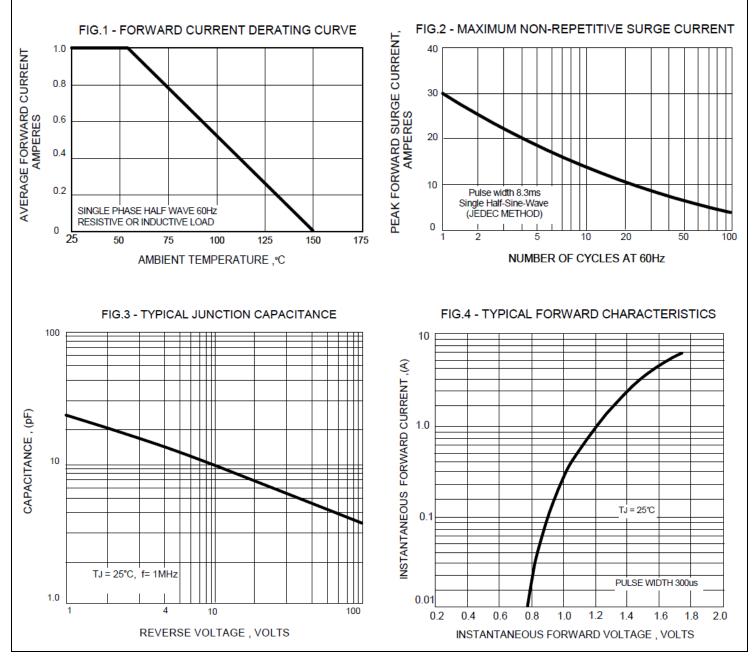
6. Reverse Recovery Test Conditions: I_F=0.5A, I_R=1A, I_{rr}=0.25A.

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



A Product Line of Diodes Incorporated

LITE-ON SEMICONDUCTOR



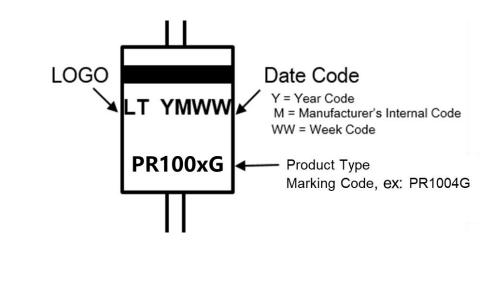


LITE-ON SEMICONDUCTOR

Ordering Information:

Part Number	Dackage	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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