

PB605 - PB610

6.0A BRIDGE RECTIFIER

Features

NOT RECOMMENDED FOR NEW DESIGNS - - USE PBPC601-PBPC607

- · Ideal for Printed Circuit Board
- Surge Overload Rating of 125A Peak
- Low forward Voltage Drop
- The Plastic Material Carries U/L Recognition 94V-0
- Lead Free Finish, RoHS Compliant (Date Code 0514+) (Note 1)

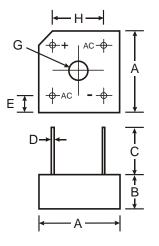
Mechanical Data

Case: PB-6, Plastic

Terminals: Leads Solderable per MIL-STD-202, Method 208

Polarity: Symbols Marked on Body

Weight: 4.56 grams



PB-6						
Dim	Min	Max				
Α	14.73	15.75				
В	5.84	6.86				
С	19	_				
D	1.0 Typical					
E	1.7	2.7				
G	3.6Ø	4.0Ø				
Н	10.3	11.3				
All Dimensions in mm						

Maximum Ratings and Electrical Characteristics

Ratings at 25° C ambient temperature unless otherwise specified. Single phase, 60Hz, resistive or inductive load.

Characteristic		PB605	PB61	PB62	PB64	PB66	PB68	PB610	Unit
Maximum Recurrent Peak Reverse Voltage		50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage		35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage		50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Output Current @ T _{HS} (Heatsink Temp) = 50°C		6.0					Α		
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)		125					А		
Maximum Forward Voltage Drop per element at 3.0Adc		1.1					V		
Maximum dc Reverse Current at rated dc Blocking Voltage per element @ T _A = 25°C @ T _A = 100°C		10 1					μA mA		
Typical Thermal Resistance		8					°C/W		
Operating and Storage Temperature Range		-65 to +150					°C		

Notes:

1. EC Directive 2002/95/EC (RoHS) revision 13.2.2003. Glass and High Temperature Solder Exemptions Applied where applicable, see *EU Directive Annex Notes 5 and 7*.



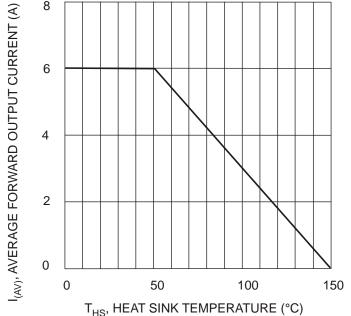
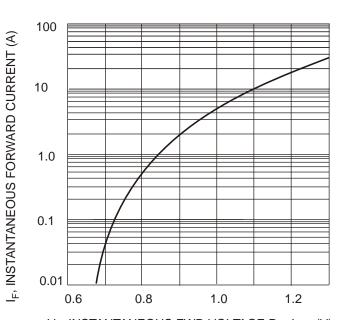


Fig. 1, Derating Curve for Output Rectified Current



V_F, INSTANTANEOUS FWD VOLTAGE Per Leg (V) Fig. 2, Typical Forward Characteristics

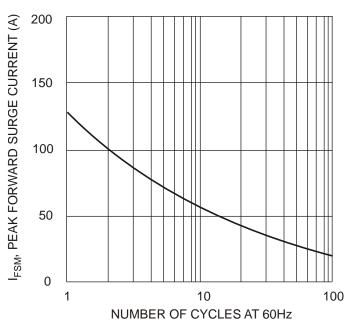


Fig. 3, Maximum Forward Surge Current

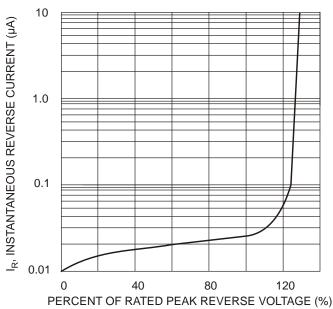


Fig. 4, Typical Reverse Characteristics

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Ordering Information (Note 2)

Device	Packaging	Shipping			
PB605	PB-6	200 Bulk			
PB61	PB-6	200 Bulk			
PB62	PB-6	200 Bulk			
PB64	PB-6	200 Bulk			
PB66	PB-6	200 Bulk			
PB68	PB-6	200 Bulk			
PB610	PB-6	200 Bulk			

Notes: 2. For Packaging Details, go to our website at http://www.diodes.com/datasheets/ap02007.pdf.

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