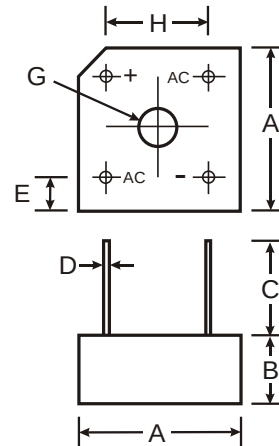


Features

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

Mechanical Data

- Σ Case: PB-6, Plastic
- Σ Terminals: Leads Solderable per MIL-STD-202, Method 208
- Σ Polarity: Symbols Marked on Body
- Σ Weight: 4.56 grams



PB-6		
Dim	Min	Max
A	14.73	15.75
B	5.84	6.86
C	19	—
D	1.0 Typical	
E	1.7	2.7
G	3.6Ø	4.0Ø
H	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	Symbol	PB605	PB61	PB62	PB64	PB66	PB68	PB610	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage	V_{RSM}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Output Current @ T_{HS} (Heatsink Temp) = 50°C	I_{AV}	6.0							A
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	125							A
Maximum Forward Voltage Drop per element at 3.0Adc	V_F	1.1							V
Maximum dc Reverse Current at rated dc Blocking Voltage per element @ $T_A = 25^\circ\text{C}$ @ $T_A = 100^\circ\text{C}$	I_R	10 1							μA mA
Typical Thermal Resistance	$R_{\theta JC}$	8							°C/W
Operating and Storage Temperature Range	T_J, T_{STG}	-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.

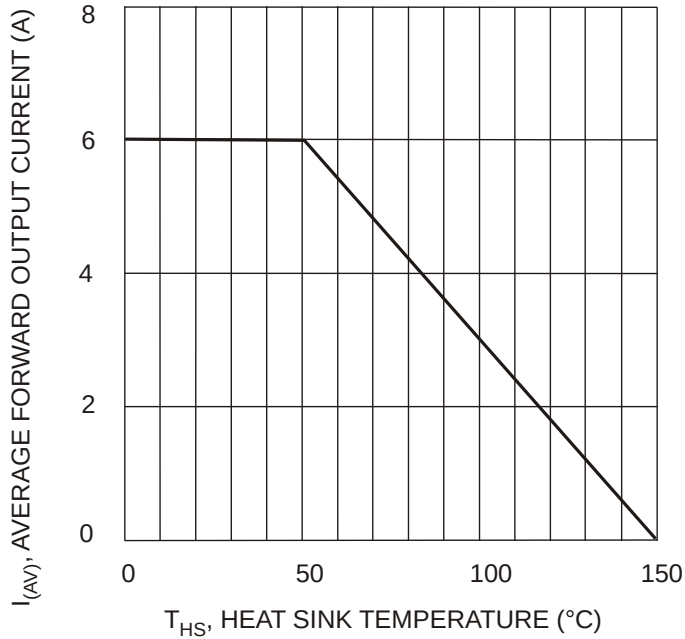


Fig. 1, Derating Curve for Output Rectified Current

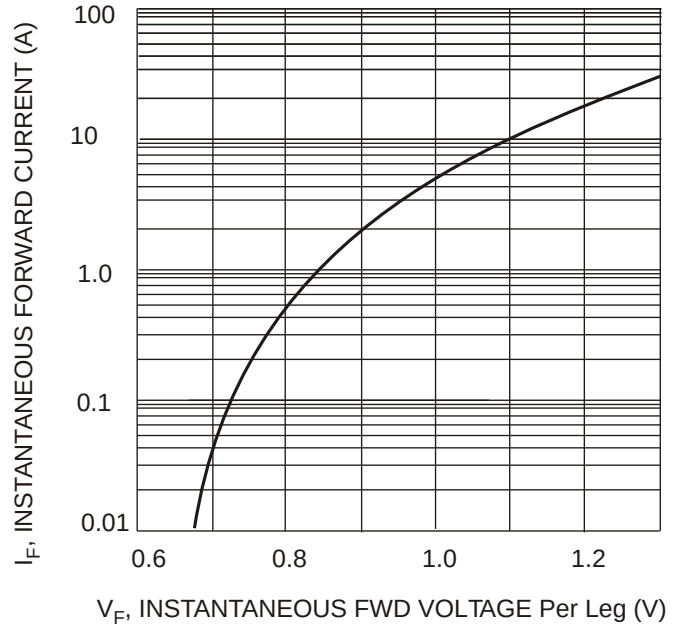


Fig. 2, Typical Forward Characteristics

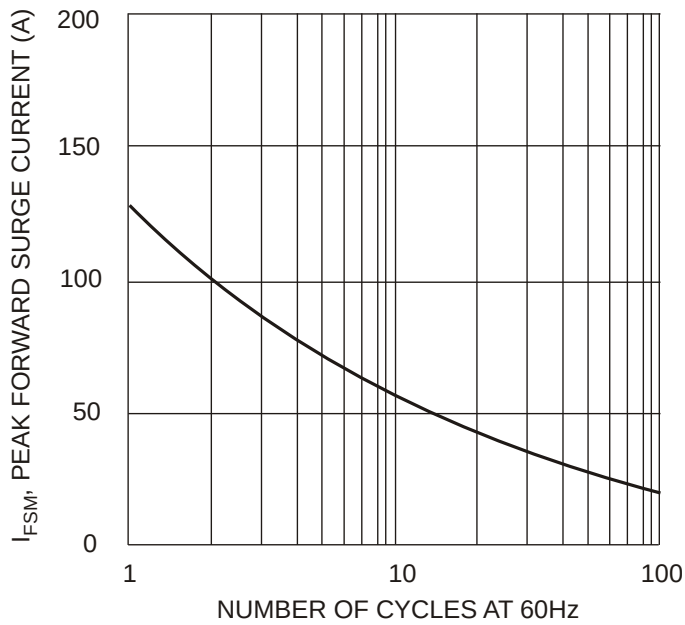


Fig. 3, Maximum Forward Surge Current

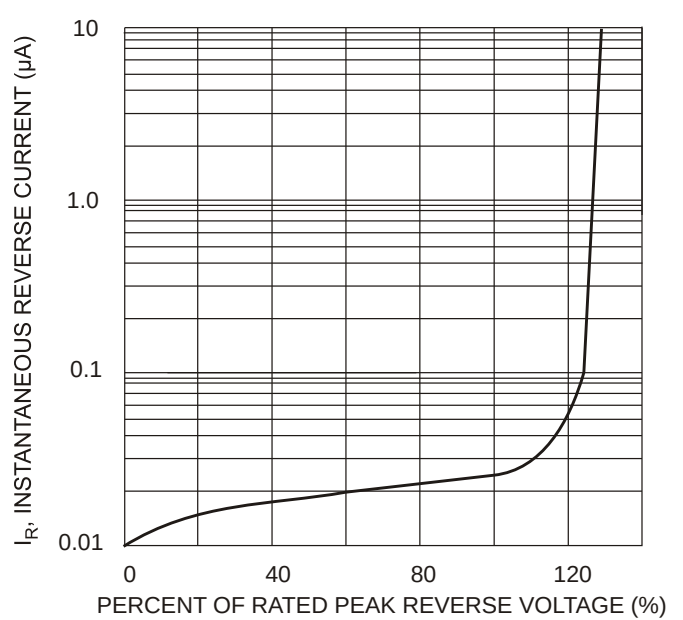


Fig. 4, Typical Reverse Characteristics

**NOT RECOMMENDED FOR NEW DESIGNS -
USE PBPC601-PBPC607**

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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