



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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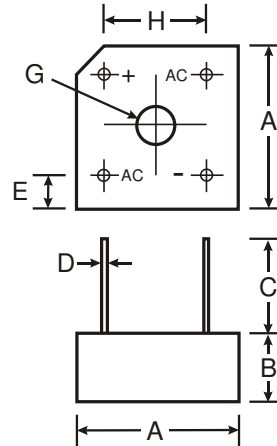
Features

- 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

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



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*.

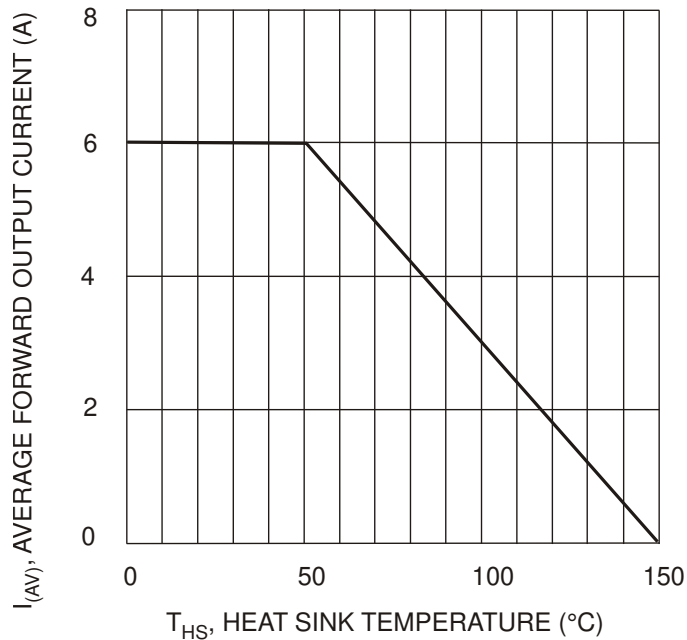


Fig. 1, Derating Curve for Output Rectified Current

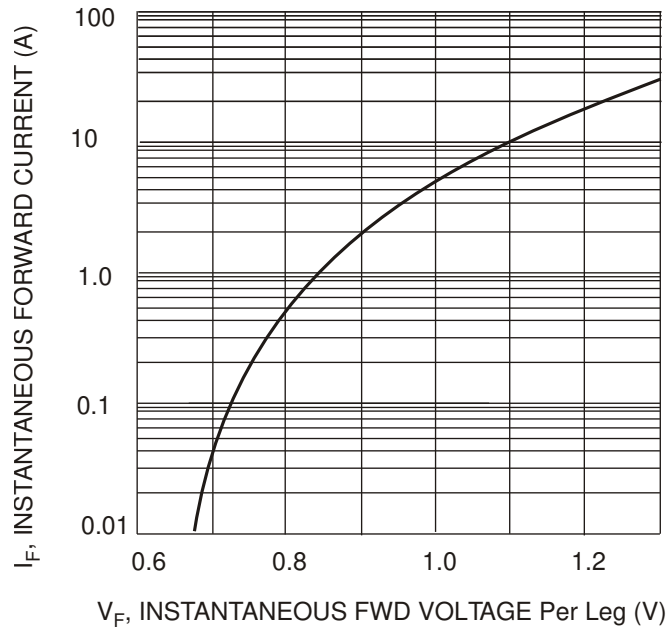


Fig. 2, Typical Forward Characteristics

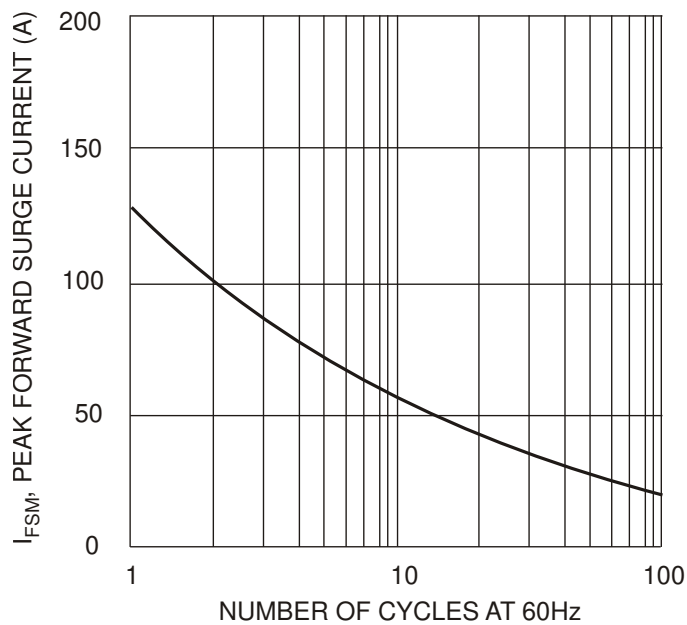


Fig. 3, Maximum Forward Surge Current

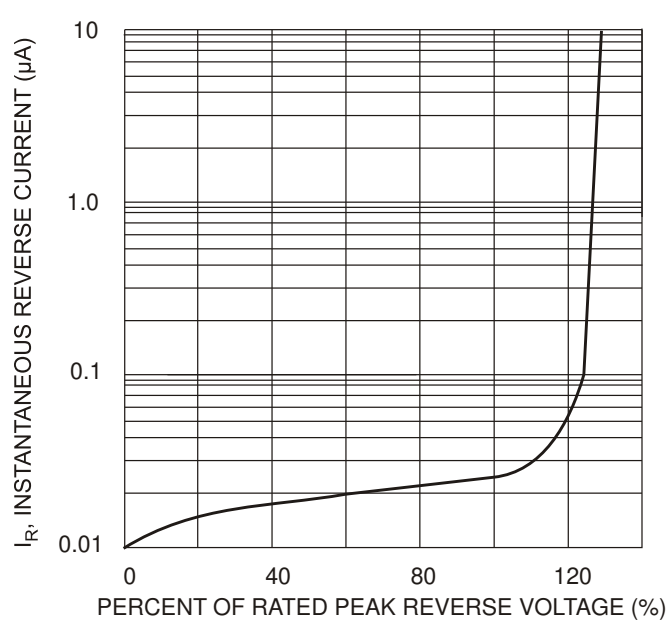


Fig. 4, Typical Reverse Characteristics

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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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