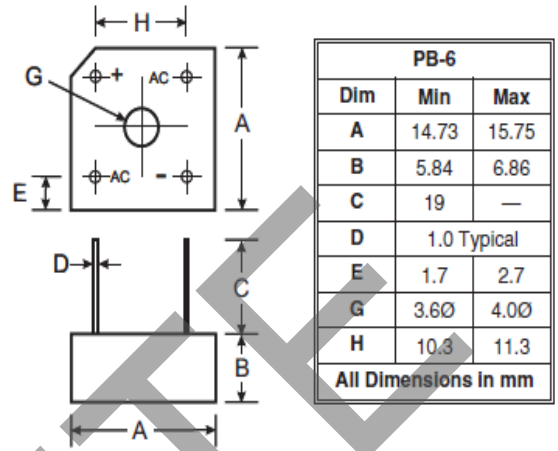


Features

- 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



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	VRRM	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 <sub(av)< sub=""></sub(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 3.0A _{dc}	V _F					1.1			V
Maximum dc Reverse Current at rated dc Blocking Voltage per element @ T _A = 25°C @ T _A = 100°C	I _R					10 1			μA mA
Typical Thermal Resistance	R _{θJC}					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.*

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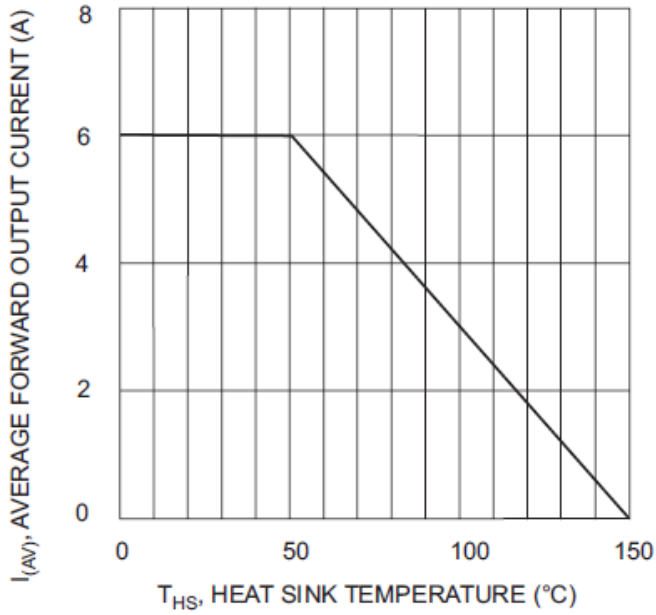


Fig. 1, Derating Curve for Output Rectified Current

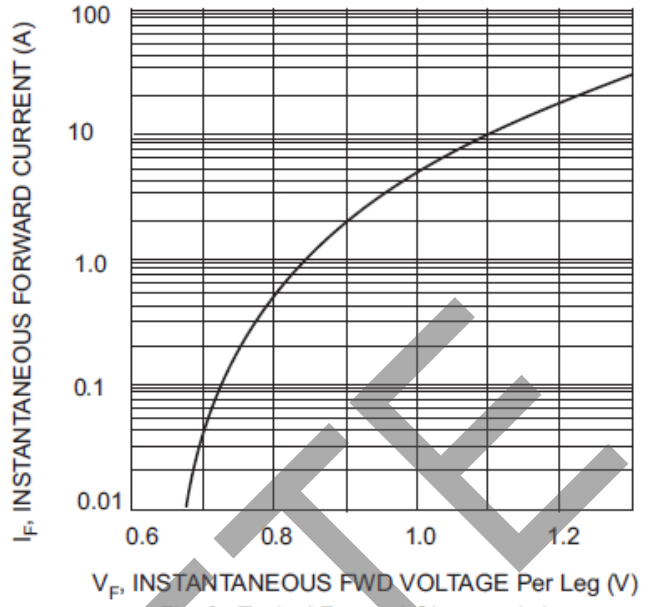


Fig. 2, Typical Forward Characteristics

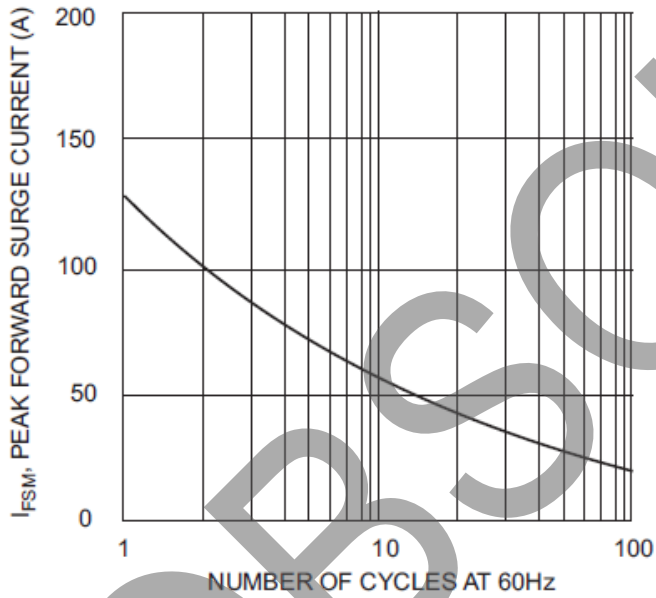


Fig. 3, Maximum Forward Surge Current

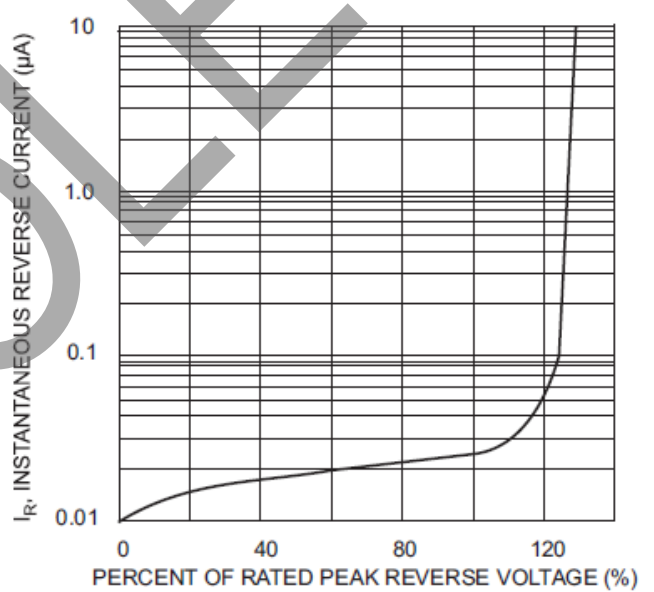


Fig. 4, Typical Reverse Characteristics

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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