



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!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

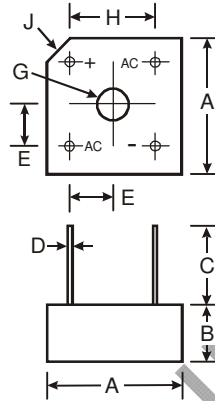


Features

- High Current Capability
- Surge Overload Rating to 150A Peak
- High Case Dielectric Strength of 1500V
- Ideal for Printed Circuit Board Application
- UL Listed Under Recognized Component Index, File Number E94661

Mechanical Data

- Case: PBPC-8
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- Moisture Sensitivity: Level 1 per J-STD-020C
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Marked on Body
- Mounting: Through Hole for #6 Screw
- Mounting Torque: 5.0 Inch-pounds Maximum
- Ordering Information: See Page 2
- Marking: Type Number
- Weight: 3.8 grams (approximate)



PBPC-8		
Dim	Min	Max
A	18.54	19.56
B	6.35	7.60
C	22.20	—
D	1.27 ∅ Typical	
E	5.33	7.37
G	3.60 ∅	4.00 ∅
H	12.70 Typical	
J	2.38 X 45° Typical	
All Dimensions in mm		

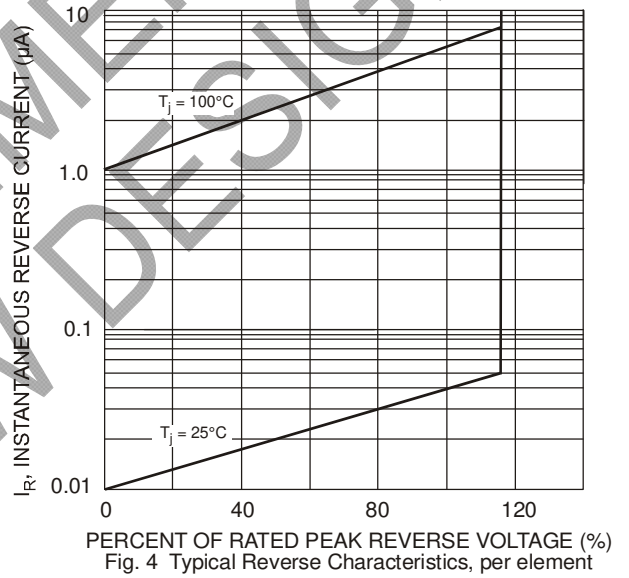
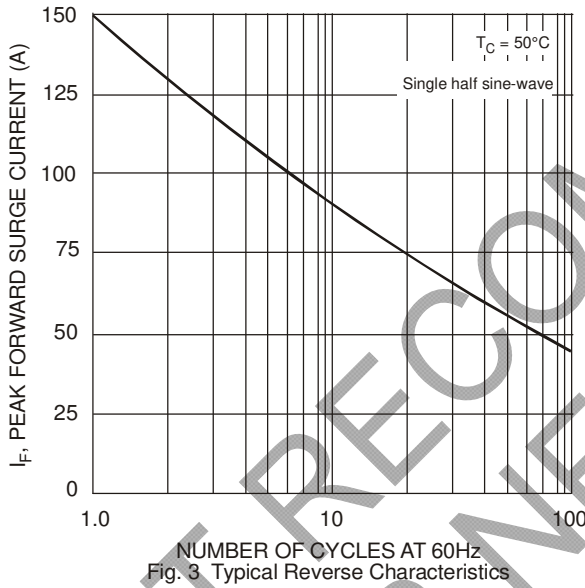
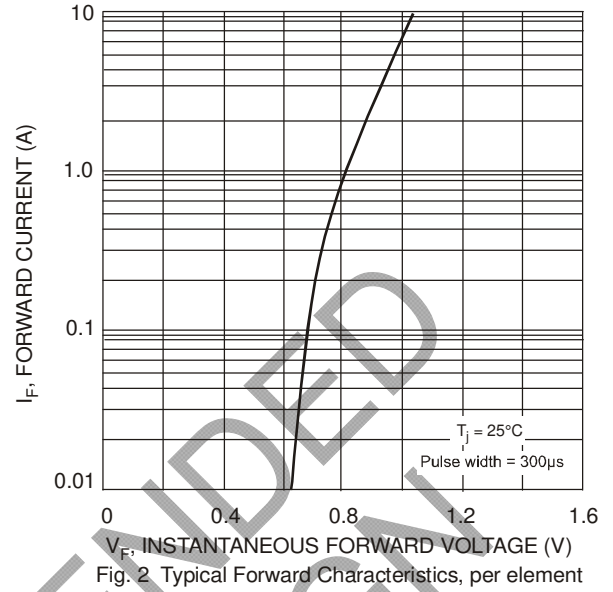
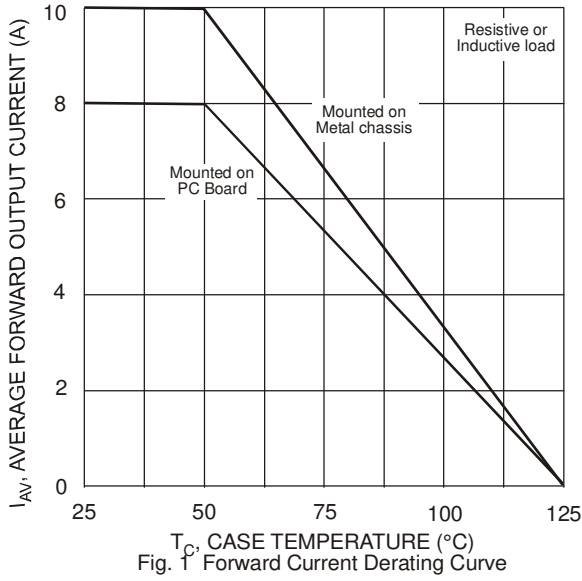
Maximum Ratings and Electrical Characteristics

@T_A = 25°C unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

Characteristic	Symbol	PBPC 1001	PBPC 1002	PBPC 1003	PBPC 1004	PBPC 1005	PBPC 1006	PBPC 1007	Unit	
Peak Repetitive Reverse Voltage	V _{RRM}									
Working Peak Reverse Voltage	V _{RWM}	50	100	200	400	600	800	1000	V	
DC Blocking Voltage	V _R									
RMS Reverse Voltage	V _{R(RMS)}	35	70	140	280	420	560	700	V	
Average Rectified Output Current (Note 1) @ T _C = 50°C	I _O					10				A
(Note 2) @ T _C = 50°C						8.0				
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load	I _{FSM}					150				A
Forward Voltage (per element) @ I _F = 5.0A	V _{FM}					1.1				V
Peak Reverse Current @ T _C = 25°C	I _R					10				μA
at Rated DC Blocking Voltage (per element) @ T _C = 100°C						1.0				
I ² t Rating for Fusing (t < 8.3ms) (Note 3)	I ² t					64				A ² s
Typical Total Capacitance, per element (Note 4)	C _T					110				pF
Typical Thermal Resistance Junction to Case (per element)	R _{θJC}					7.5				°C/W
Operating and Storage Temperature Range	T _j , T _{STG}					-65 to +125			°C	

- Notes:
1. Mounted on metal chassis.
 2. Mounted on PC board FR-4 material.
 3. Non-repetitive, for t > 1.0ms and < 8.3ms.
 4. Per element, measured at 1.0 MHz and applied reverse voltage of 4.0V DC.



Ordering Information (Note 5)

Device	Packaging	Shipping
PBPC1001	PBPC-8	150/Box
PBPC1002	PBPC-8	150/Box
PBPC1003	PBPC-8	150/Box
PBPC1004	PBPC-8	150/Box
PBPC1005	PBPC-8	150/Box
PBPC1006	PBPC-8	150/Box
PBPC1007	PBPC-8	150/Box

Notes: 5. For packaging details, go to our website at <http://www.diodes.com/datasheets/ap02008.pdf>.

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