imall

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

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н-

G

D

AC

ΙE

8.0A BRIDGE RECTIFIER

Max

19.56

7.60

7.37

4.00 Ø

1.27 Ø Typical

12.70 Typical

2.38 X 45° Typical

PBPC-8

Min

18.54

6.35

22.20

5.33

3.60 Ø

All Dimensions in mm

Dim

Α

В

С

D

E

G

Ή

4

 $@T_A = 25^{\circ}C$ unless otherwise specified

Features

- High Current Capability
- Surge Overload Rating to 125A Peak
- High Case Dielectric Strength of 1500V
- Ideal for Printed Circuit Board Application
- UL Listed Under Recognized Component Index, File Number E94661

NOT RECOMMENDED

FOR NEW DESIGN

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: 5.4 grams (approximate)

Maximum Ratings and Electrical Characteristics

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

Characteristic	Symbol	PBPC 801	PBPC 802	PBPC 803	PBPC 804	PBPC 805	PBPC 806	PBPC 807	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	V _{R(RMS)}	35	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1) @ $T_C = 50^{\circ}$ (Note 2) @ $T_C = 50^{\circ}$					8.0 6.0				А
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-wave Superimposed on Rated Load	IFSM				125				А
Forward Voltage (per element) @ IF = 4.0	A V _{FM}				1.1				V
Peak Reverse Current@ $T_C = 25^{\circ}$ at Rated DC Blocking Voltage (per element)@ $T_C = 100^{\circ}$					10 1.0				μA mA
I ² t Rating for Fusing (t<8.3ms) (Note 3) l ² t	64			A ² s				
Typical Total Capacitance (Note 4) C _T	100			pF				
Typical Thermal Resistance Junction to Case (per element)	$R_{\theta JC}$				9.4				°C/W
Operating and Storage Temperature Range	T _{j,} T _{STG}			-(65 to +12	25			°C

Mounted on metal chassis. Mounted on PC board FR-4 material. 2.

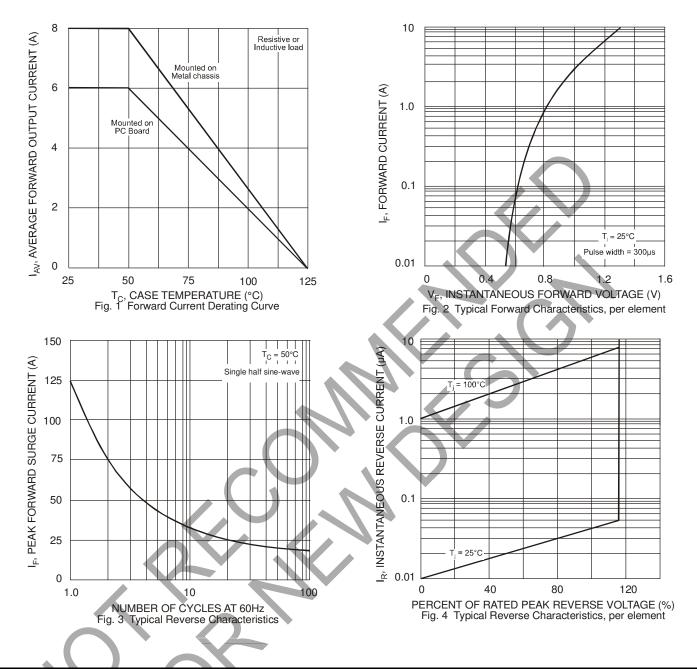
3. Non-repetitive, for t > 1.0ms and < 8.3ms.

Per element, measured at 1.0 MHz and applied reverse voltage of 4.0V DC. 4.

Notes:



NOT RECOMMENDED FOR NEW DESIGN



Ordering Information (Note 5)

Device	Packaging	Shipping
PBPC801	PBPC-8	150/Box
PBPC802	PBPC-8	150/Box
PBPC803	PBPC-8	150/Box
PBPC804	PBPC-8	150/Box
PBPC805	PBPC-8	150/Box
PBPC806	PBPC-8	150/Box
PBPC807	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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