DISCONTINUED



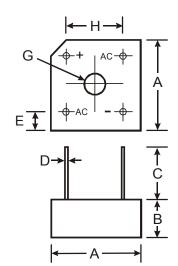
PBPC601 - PBPC607

Features

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

Mechanical Data

- Case: PBPC-6
- 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 3
- Marking: Type Number
- Weight: 3.8 grams (approximate)



PBPC-6						
Dim	Min	Max				
Α	14.73	15.75				
В	5.84	6.86				
С	19.00	_				
D	1.01 Ø Typical					
Е	1.70	3.20				
G	Hole for #6 scre					
G	3.60 ∅	4.00 Ø				
Н	10.30	11.30				
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 601	PBPC 602	PBPC 603	PBPC 604	PBPC 605	PBPC 606	PBPC 607	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) @ $T_C = 50$ °C (Note 2) @ $T_C = 50$ °C		6.0 4.0					Α		
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load		125					Α		
Forward Voltage (per element) @ I _F = 3.0A	V_{FM}	1.1			V				
Peak Reverse Current \textcircled{Q} T _C = 25°Cat Rated DC Blocking Voltage (per element) \textcircled{Q} T _C = 100°C	I In				10 1.0				μA mA
I^2 t Rating for Fusing (t < 8.3ms) (Note 3)	I ² t				64				A ² s
Typical Total Capacitance (Note 4)	Ст				55				pF
Typical Thermal Resistance Junction to Case (per element)		12.5				°C/W			
Operating and Storage Temperature Range		-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.



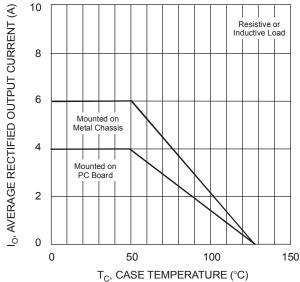
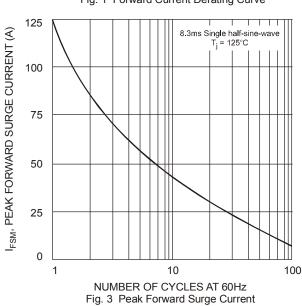
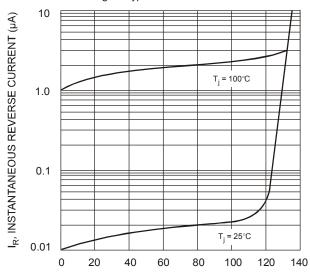


Fig. 1 Forward Current Derating Curve



100 Pulse width = 300μs T_j = 25°C T_j

 V_{F} , INSTANTANEOUS FORWARD VOLTAGE (V) Fig. 2 Typical Forward Characteristics



PERCENT OF RATED PEAK REVERSE VOLTAGE (%) Fig. 4 Typical Reverse Characteristics



Ordering Information (Note 5)

Device	Packaging	Shipping
PBPC601	PBPC-6	200/Box
PBPC602	PBPC-6	200/Box
PBPC603	PBPC-6	200/Box
PBPC604	PBPC-6	200/Box
PBPC605	PBPC-6	200/Box
PBPC606	PBPC-6	200/Box
PBPC607	PBPC-6	200/Box

Note:

5. For packaging details, visit our website at http://www.diodes.com/datasheets/ap02008.pdf.

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