

PBPC601 - PBPC607

6.0A BRIDGE RECTIFIER

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,

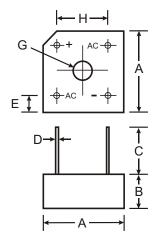
Method 208

Polarity: Marked on Body

Mounting: Through Hole for #6 Screw Mounting Torque: 5.0 Inch-pounds Maximum Ordering Information: See Last Page

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	Typical				
E	1.70	3.20				
G	Hole for #6 screw					
	3.60	4.00				
Н	10.30	11.30				
All Dimensions in mm						

Maximum Ratings and Electrical Characteristics @ TA = 25 C unless otherwise specified

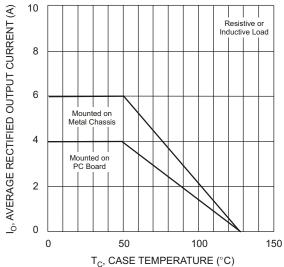
Single phase, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

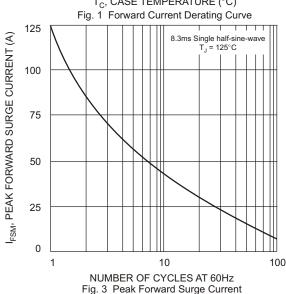
Characteristic		PBPC 601	PBPC 602	PBPC 603	PBPC 604	PBPC 605	PBPC 606	PBPC 607	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	V _{R(RMS)}	35	70	140	280	420	560	700	V
Average Rectified Output 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		10 1.0					A mA		
I ² t Rating for Fusing (t < 8.3ms) (Note 3)		64					A ² s		
Typical Total Capacitance (Note 4)		55					pF		
Typical Thermal Resistance Junction to Case (per element)		12.5					C/W		
Operating and Storage Temperature Range		-65 to +125					С		

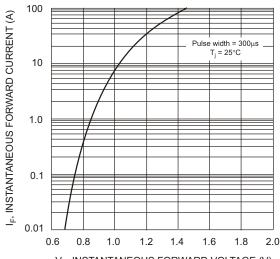
Notes: 1. Mounted on metal chassis.

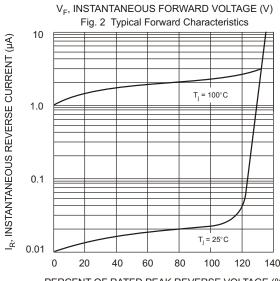
- 2. Mounted on PC board FR-4 material.
- 3. Non-repetitive, for t > 1.0ms and < 8.3ms.
- 4. Per element, measured at f = 1.0MHz and applied reverse voltage of V_R = 4.0V DC.











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		

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

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