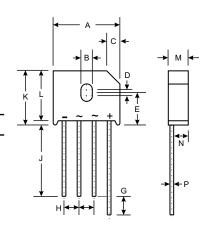


# PBU601 - PBU607

### **6.0A BRIDGE RECTIFIER**

#### **Features**

- Diffused Junction
- Low Forward Voltage Drop, High Current Capability
- Surge Overload Rating to 250A Peak
- Ideal for Printed Circuit Board Applications
- Case to Terminal Isolation Voltage 1500V
- Plastic Material: UL Flammability Classification Rating 94V-0
- UL Listed Under Recognized Component Index, File Number E95060



PBU								
Dim	Min	Max						
Α	22.70	23.70						
В	3.80	4.10						
С	4.20	4.70						
D	1.70	2.20						
E	10.30	11.30						
G	4.50	6.80						
Н	4.80	5.80						
J	25.40	_						
K	_	19.30						
L	16.80	17.80						
М	6.60	7.10						
N	4.70	5.20						
Р	1.20	1.30						
All Dimensions in mm								

## **Mechanical Data**

Case: Molded Plastic

 Terminals: Plated Leads Solderable per MIL-STD-202, Method 208

Polarity: As Marked on Case

Mounting: Through Hole for #6 Screw

Mounting Torque: 5.0 Inch-pounds Maximum

Weight: 8.0 grams (approx.)Mounting Position: Any

Marking: Type Number

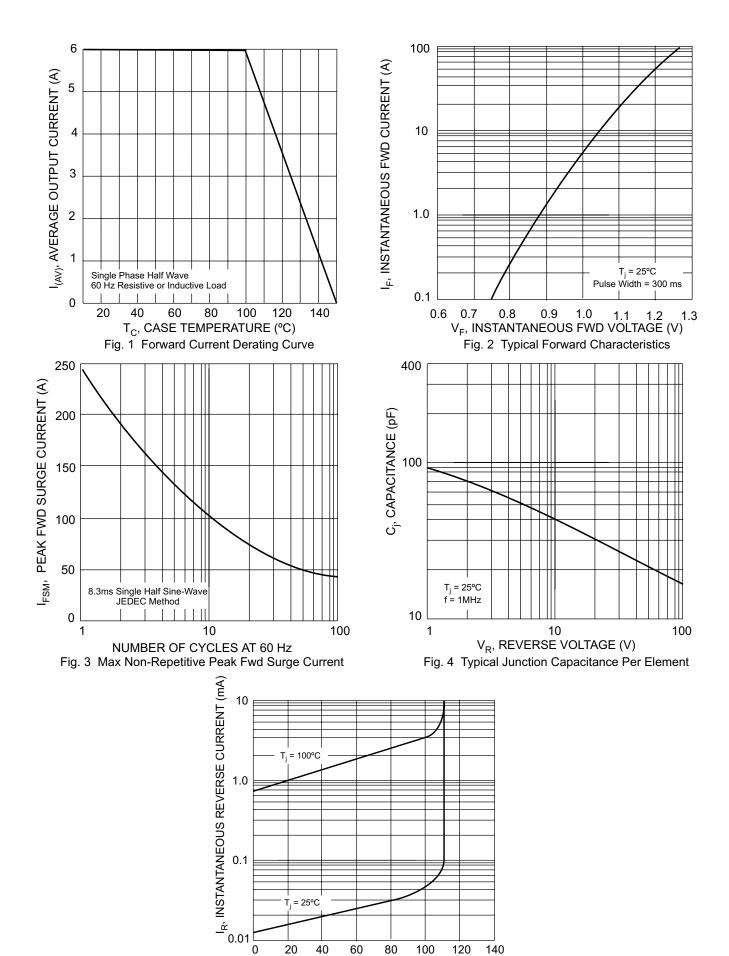
# Maximum Ratings and Electrical Characteristics @ T<sub>A</sub> = 25°C unless otherwise specified

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

Characteristic		Symbol	PBU 601	PBU 602	PBU 603	PBU 604	PBU 605	PBU 606	PBU 607	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		V <sub>RRM</sub> V <sub>RWM</sub> V <sub>R</sub>	50	100	200	400	600	800	1000	V
RMS Reverse Voltage		V <sub>R(RMS)</sub>	35	70	140	280	420	560	700	V
Average Rectified Output Current @	T <sub>C</sub> = 100°C	Ιο	6.0						Α	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)		I <sub>FSM</sub>	250							А
Forward Voltage (per element)	$@ I_F = 3.0A$	V <sub>FM</sub>	1.0							V
Peak Reverse Current $@ T_C = 25^{\circ}C$ at Rated DC Blocking Voltage $@ T_C = 100^{\circ}C$		I <sub>R</sub>	10 1.0							μA mA
I <sup>2</sup> t Rating for Fusing	(Note 2)	I <sup>2</sup> t				166				A <sup>2</sup> s
Typical Thermal Resistance Junction to Case	(Note 1)	R <sub>0</sub> JC				4.2				K/W
Operating and Storage Temperature Range		T <sub>j,</sub> T <sub>STG</sub>	-65 to +150							°C

Notes: 1. Thermal resistance junction to case mounted on heatsink.

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



RATED PERCENT OF PEAK REVERSE VOLTAGE (%) Fig. 5 Typical Reverse Characteristics