

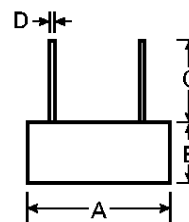
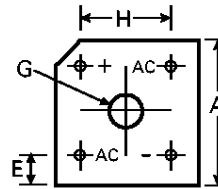


# PB605 - PB610

## 6.0A BRIDGE RECTIFIER

### Features

- Ideal for Printed Circuit Board
- Surge Overload Rating of 125A Peak
- Low forward Voltage Drop
- The Plastic Material Carries U/L Recognition 94V-0



PB-6		
Dim	Min	Max
A	14.73	15.75
B	5.84	6.86
C	19	—
D	1.0 Typical	
E	1.7	2.7
G	3.6Ø	4.0Ø
H	10.3	11.3
All Dimensions in mm		

### Mechanical Data

- Case: PB-6, Void-free Plastic
- Terminals: Leads Solderable per MIL-STD-202, Method 208
- Polarity: Symbols Marked on Body
- Weight: 4.56 grams
- Mounting Position: Any

### Maximum Ratings and Electrical Characteristics

Ratings at 25° C ambient temperature unless otherwise specified.  
Single phase, 60Hz, resistive or inductive load.

Characteristic	Symbol	PB605	PB61	PB62	PB64	PB66	PB68	PB610	Unit
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage	V <sub>RSM</sub>	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Output Current @ T <sub>HS</sub> (Heatsink Temp) = 50° C	I <sub>(AV)</sub>	6.0							A
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	125							A
Maximum Forward Voltage Drop per element at 3.0Adc	V <sub>F</sub>	1.1							V
Maximum dc Reverse Current at rated dc Blocking Voltage per element @ T <sub>A</sub> = 25° C @ T <sub>A</sub> = 100° C	I <sub>R</sub>	10 1							µA mA
Typical Thermal Resistance	R <sub>θJC</sub>	8							°C/W
Operating and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-65 to +150							°C

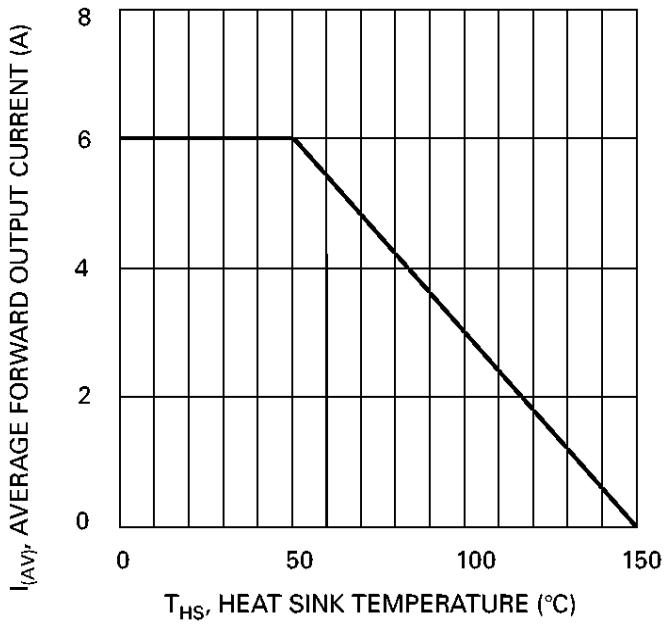


Fig. 1, Derating Curve for Output Rectified Current

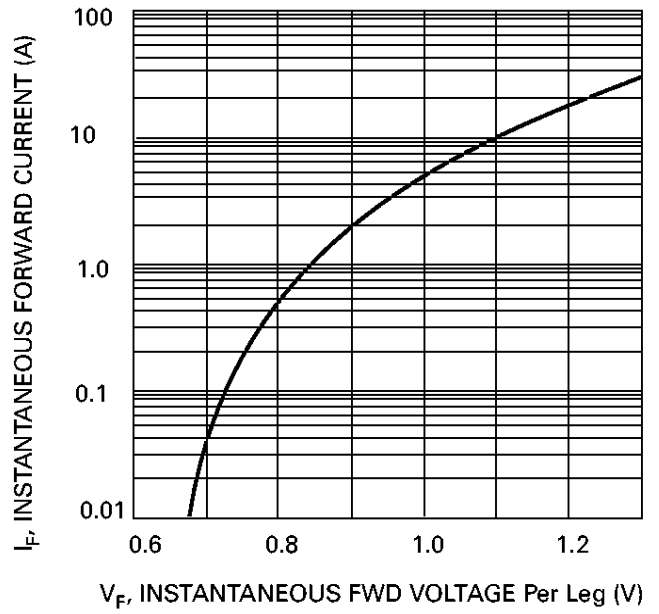


Fig. 2, Typical Forward Characteristics

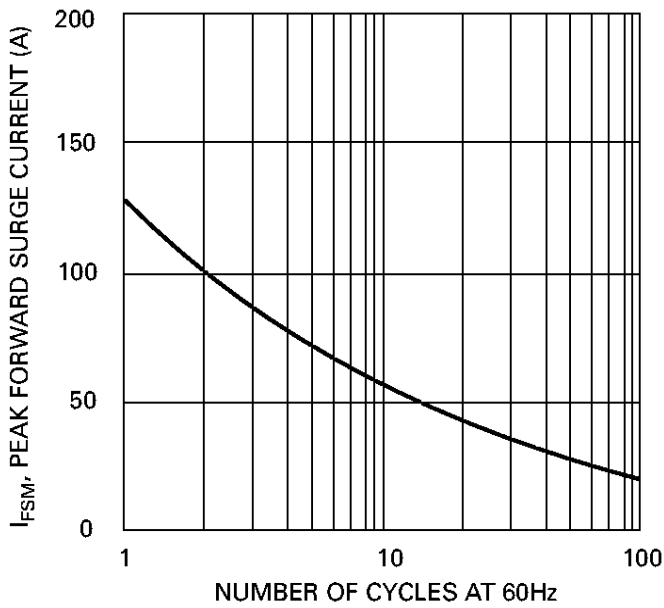


Fig. 3, Maximum Forward Surge Current

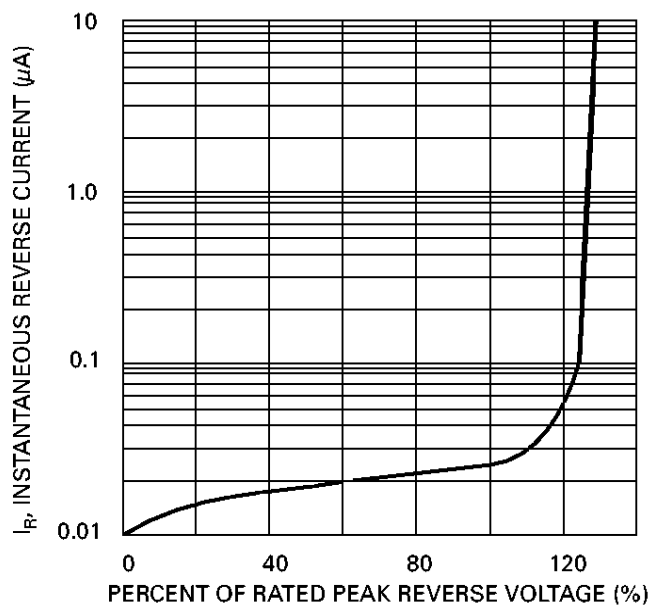


Fig. 4, Typical Reverse Characteristics