



# Bridge Rectifier

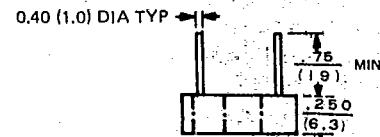
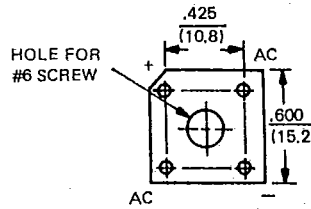
## 6 A/8 A Series PBPC601-PBPC607

### Features

- Surge overload rating - 125 Amperes peak
- Low forward voltage drop
- Mounting position: Any
- Small size, simple installation
- Leads solderable per MIL-STD-202, Method 208
- Weight: 0.13 ounce, 3.8 grams

**Voltage Range**  
50 to 1000 Volts

**Current**  
6 and 8 Amperes



Polarity shown on side of case positive lead by beveled corner.

### Maximum Ratings and Electrical Characteristics

Ratings at 25° C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz resistive or inductive load at 60Hz. For capacitive load, derate current by 20%.

	PBPC601	PBPC602	PBPC603	PBPC604	PBPC605	PBPC606	PBPC607	UNITS
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage	35	70	140	280	420	560	700	V
Maximum Average Forward Rectified Output Current at:				8.0				A
T <sub>c</sub> = 50° C*				6.0				A
T <sub>c</sub> = 100° C*				6.0				A
T <sub>A</sub> = 50° C**								A
Peak Forward Surge Current 8.3 ms single half-sine-wave superimposed on rated load (JEDEC method)				125				A
Maximum DC Forward Voltage drop per element at 3.0ADC				1.2				V
Maximum Reverse Current at Rated				10.0				µA
DC Blocking Voltage per element				1.0				mA
Operating Temperature Range T <sub>J</sub>				-55 to +125				°C
Storage Temperature Range T <sub>A</sub>				-55 to +150				°C

**NOTES**

- \* Unit mounted on metal chassis
- \*\* Unit mounted on P.C. board

### Rating and Characteristic Curves PBPC601 - PBPC607

FIG. 1-MAXIMUM FORWARD SURGE CURRENT

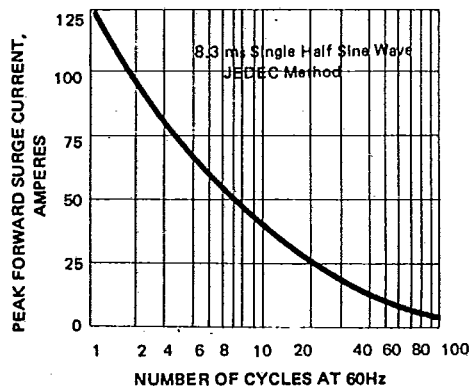


FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

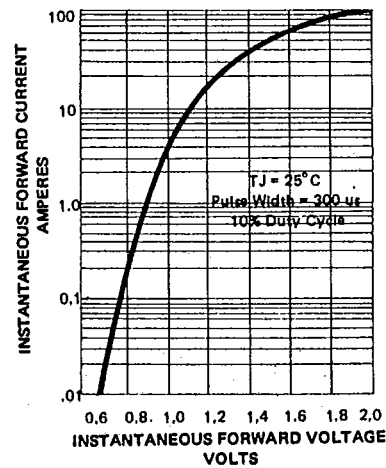


FIG. 2-DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

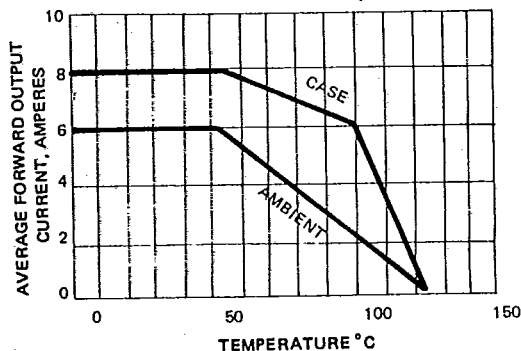
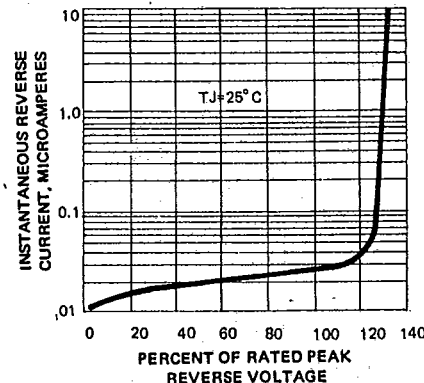


FIG. 4-TYPICAL REVERSE CHARACTERISTICS



NOTE: Special Silicon Rectifiers are also available