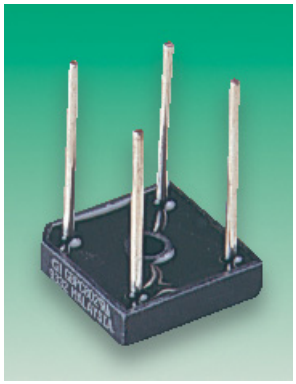
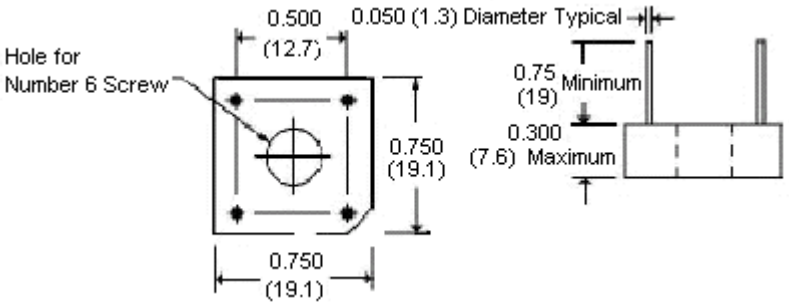
CP800 Series

Single Phase Bridge Rectifiers



Features:

- High surge current capability.
- PCB mounted/screw fixing.
- Surge overload rating: 200 Amperes peak.
- Low forward voltage drop and reverse leakage.
- Small size, simple installation.
- Reliable low cost construction utilizing moulded plastic technique.



Dimensions : Inches (Millimetres)

Mechanical Data:

Mounting position	: Any.
Terminals	: Leads solderable per MIL-STD-202, Method 208.
Mounting	: Through hole for a number 6 screw.

Maximum Ratings and Electrical Characteristics

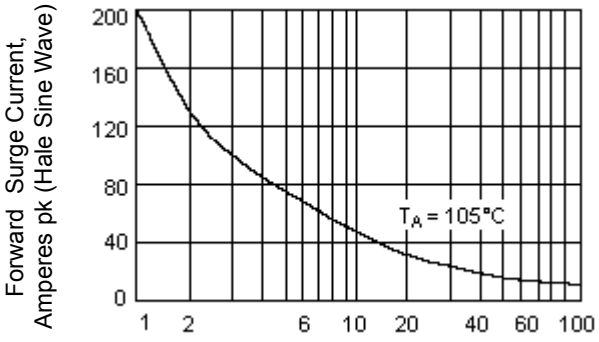
At 25°C ambient temperature unless otherwise noted; resistive or inductive load at 60Hz.

Parameter	CP802	CP806	CP808	Unit
Maximum recurrent peak reverse voltage	200	600	800	V
Maximum bridge input voltage RMS	140	420	560	
Maximum average rectified output at T_C = 50°C see Figure 2 T_A = 40°C	8.0 3.0			A
Peak one cycle surge overload current	200			A
Maximum forward voltage drop per element at 4.0A dc and 25°C see Figure 3	1.1			V
Maximum reverse leakage at rated DC blocking voltage per element at 25°C See Figure 4 at 100°C	10.0 1.0			µA mA
I^2t Rating for fusing (t<8.3ms)	166			A^2 seconds
Typical junction capacitance per leg (Note 4) CJ	200			pF
Typical thermal resistance per leg (Note 3) RθJA Typical thermal resistance per leg (Note 2) RθJL	21 6			°C/W
Operating temperature range	-55 to +125			°C
Storage temperature range	-55 to +150			

Notes:

1. Bolt down on to a heat-sink with silicon thermal compound between bridge and mounting surface for maximum heat transfer with a number 6 screw.
2. Units Mounted on a 8.6” x 8.6” x 24” thick (22 x 22 x 0.6cm) Aluminium plate heatsink.
3. Units Mounted on PCB at 0.375” (9.5mm) lead length with 0.5” x 0.5” (12 x 12mm) copper pads.
4. Measured at 1.0MHz and applied reverse voltage.

Rating and Characteristic Curves



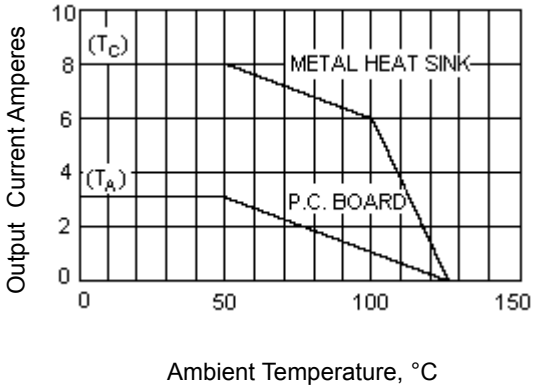


Figure 2 - Derating Curve for Output Rectified Current

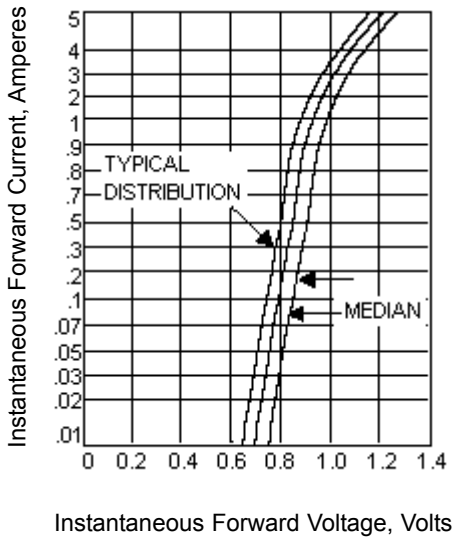


Figure 3 - Typical Forward Characteristics (25°C)

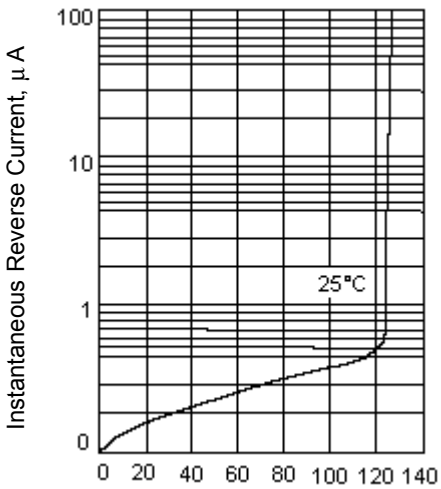


Figure 4 - Reverse Characteristics

Specifications

V_{RRM} (V)	Maximum Input Voltage (V ac)	I_O (A)	T_A (°C)	I_{FSM} (A)	Body		Lead			Part Number
					Height	Width/Depth	Length	Spacing	Diameter	
200	600	8	50	200	7.6	19.1	19.1	12.7	1.3 Typical	CP802
600	420									CP806
800	560		40							CP808

Dimensions : Millimetres

CP800 Series

Single Phase Bridge Rectifiers

Notes:

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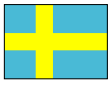
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