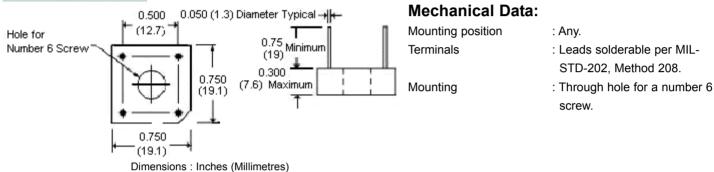
CP800 Series Single Phase Bridge Rectifiers





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.



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	200 600 8				
Maximum bridge input voltage RMS	140	420	560	- V		
Maximum average rectified output at see Figure 2 $T_C = 50^{\circ}C$ $T_A = 40^{\circ}C$		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		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 ² t Rating for fusing (t<8.3ms)		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.

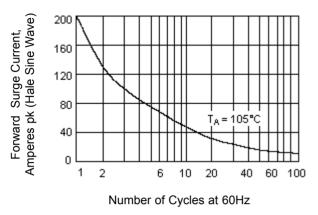
- 2. Units Mounted on a 8.6" x 8.6" x 24" thick (22 x 22 x 0.6cm) Aluminium plate heatsink.
- 3. Units Mounted on PCB at 0.375" (9.5mm) lead length with 0.5" x 0.5" (12 x 12mm) copper pads.
- 4. Measured at 1.0MHz and applied reverse voltage.

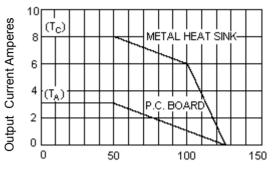


CP800 Series Single Phase Bridge Rectifiers

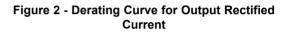


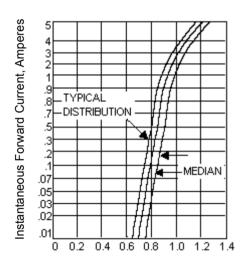
Rating and Characteristic Curves



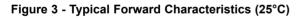


Ambient Temperature, °C

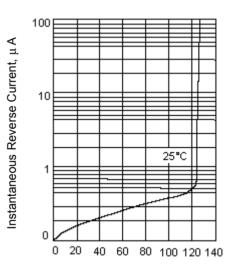




Instantaneous Forward Voltage, Volts



Specifications



Percent of Rated Peak Reverse Voltage

Figure 4 - Reverse Characteristics

V _{RRM} (V)	Maximum Input Voltage (V ac)	l _o (A)	T _A (°C)	I _{FSM} (A)	Body		Lead			Part Number	
					Height	Width/Depth	Length	Spacing	Diameter	Fait Nulliber	
200	600	8	8	50							CP802
600	420			50	200	7.6	19.1	19.1	12.7	1.3 Typical	CP806
800	560			40						,	CP808

Dimensions : Millimetres

