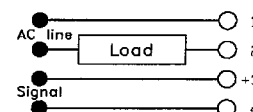


Opto 22's P Series provides a low profile SSR for 1/2 inch center mounting of printed circuit boards, while the MP Series provides a small footprint where PC board area is at a premium. Units are available in 2 and 4 amp versions for both 120 and 240 volt lines. A new 4 amp version is available for 380 volt lines.

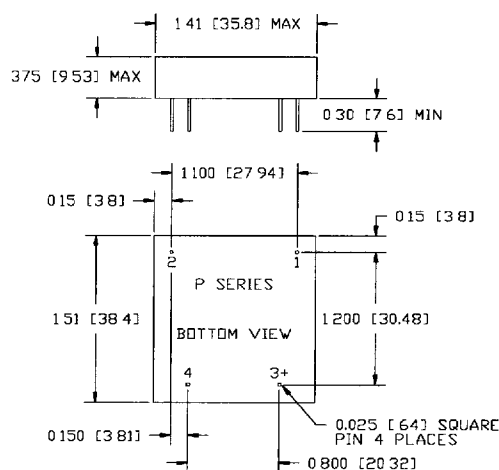
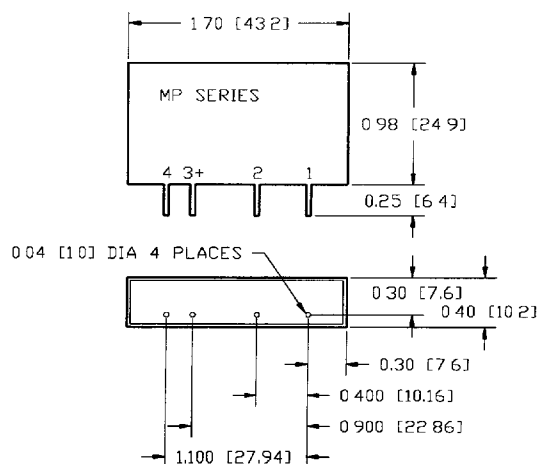
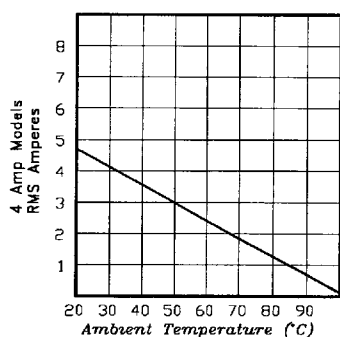
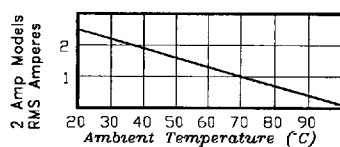
- ▲ Photo isolation
- Zero voltage turn-on
- Built-in snubber
- ▲ High PRV rating
- 200% load tested at rated current at 0.5 power factor
- 4000 volt isolation
- ▲ TTL compatible
- UL recognized
- CSA certified
- ▲ VDE approved

Connection Diagram

Note: Load may be in series with terminal 1 or 2.



CURRENT V.S. AMBIENT



TOLERANCES: .XX ± 0.03 [0.8]
.XXX ± 0.010 [0.25]

PRINTED CIRCUIT SERIES **Detailed Electrical Specifications**

Model Number	Nominal AC Line Voltage	Nominal Current Rating Amps	1 Cycle Surge (Amps) Peak	Nominal Signal Input Resistance Ohms	Signal Pick-up Voltage	Signal Drop-out Voltage	Peak Repetitive Voltage Minimum	Maximum Output Voltage Drop	Off State Leakage mA Maximum	Operating Voltage Range Volts AC	I ² t Rating t = 8.3 Milli-Seconds	Isolation Voltage	θ_{jc} * °C/Watt	Dissipation Watts/Amp
MP120D2 or P120D2	120	2	20	1000	3 VDC† (32V allowed)	1 VDC	600	1.6 volts	5 mA	12 - 140	2	4000 V _{rms}	20	1.2
MP120D4 or P120D4	120	4	85	1000		1 VDC	600	1.6 volts	5 mA	12 - 140	30	4000 V _{rms}	6.5	1.2
MP240D2** or P240D2**	240	2	20	1000		1 VDC	600	1.6 volts	5 mA	24 - 280	2	4000 V _{rms}	20	1.2
MP240D4** or P240D4**	240	4	85	1000		1 VDC	600	1.6 volts	5 mA	24 - 280	30	4000 V _{rms}	6.5	1.2
MP380D4	380	4	85	1000		1 VDC	800	1.6 volts	5 mA	24 - 420	30	4000 V _{rms}	6.5	1.2

Note: VDE Approved on models with **, add - 17 to model number.

† MP series 24 volts maximum

Additional Specifications

A
L
L
M
O
D
E
L
S

Isolation:

Coupling capacitance input to output
8 PF maximum.

Operating Temperature:

- 40° C to 100° C

Operating Frequency:

25 - 65 Hz (400 Hz with 6 times higher
off-state leakage)

Turn-on Time:

1/2 cycle maximum zero voltage

Turn-off Time:

1/2 cycle maximum zero current

DV/DT Off State:

200 V/microsecond

DV/DT Commutating:

Snubbed for rated current at 0.5
power factor

* θ_{jc} = Thermal resistance junction to base.

Maximum junction temperature is 110° C.

Surge Current Data

Time Seconds	Time*** (Cycles)	2 AMP P or MP Peak Amps	4 AMP P or MP Peak Amps
0.017	1	20	85
0.050	3	18	66
0.100	6	15	53
0.200	12	11	45
0.500	30	9	37
1	60	8.5	31
2	120	8	28
3	180	7.5	27
4	240	7	26
5	300	6.5	25
10	600	6	24

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