

CRYDOM*Control over power*

Series PX, MPX

5Amp • 120/240 Vac • AC Output SIP

- **Ultra High Surge Rating**
- **Random (R) and Zero Voltage Switching**
- **Wide Range Control**
- **Opto Isolated to 4000 Vrms**

Advanced features include exceptional steady state current, plus ultra-high surge ratings utilizing oversized inverse-parallel SCR chips, together with efficient thermal management for increase cycle life. Models are available to switch up to 280 Vrms with either zero-cross or random turn-on ("R") switching versions.

Manufactured in Crydom's ISO 9002 Certified facility for optimum product performance and reliability.

MODEL NUMBERS	DC CONTROL	PX240D5 MPX240D5	PX240D5R MPX240D5R
OUTPUT SPECIFICATIONS ①			
Operating Voltage (47-63 Hz) [Vrms]		12-280	12-280
Load Current Range [Arms]		.06-5.0	.06-5.0
Transient Overvoltage [Vpk]		600	600
Max. Surge Current, (16.6ms) [Apk]		250	250
Max. On-State Voltage Drop @ Rated Current [Vpk]		1.4	1.4
Maximum I ² t for Fusing, (8.3 msec.) [A ² sec]		260	260
Max. Off-State Leakage Current @ Rated Voltage [mArms]		4.0	4.0
Min. Off-State dv/dt @ Max. Rated Voltage [V/μsec] ②		500	500
Max. Turn-On Time ③		1/2 Cycle	0.02 msec
Max. Turn-Off Time		1/2 Cycle	1/2 Cycle
Power Factor (Min.) with Max. Load		0.5	0.5

INPUT SPECIFICATIONS ①

Control Voltage Range	3-32 Vdc
Max. Turn-On Voltage	3.0 Vdc
Min. Turn-Off Voltage	1.0 Vdc
Nominal Input Impedance	1500 Ohm
Typical Input Current @ Nominal Voltage	2.6 mAdc

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GENERAL NOTES

① All parameters at 25°C unless otherwise specified.

② Off-State dv/dt test method per EIA/NARM standard RS-443, paragraph 13.11.1

③ Voltage applied for 1 minute.

For recommended applications and more information contact:

USA: Sales Support (877) 502-5500 **Tech Support** (877) 702-7700 **FAX** (619) 710-8540

Crydom Corp, 2320 Paseo de las Americas, Ste. 201, San Diego, CA 92154

Email: sales@crydom.com **WEB SITE:** <http://www.crydom.com>**UK:** +44 (0)1202 365070 • **FAX** +44 (0)1202 365090 Crydom International Ltd., 7 Cobham Road, Ferndown Industrial Estate, Ferndown, Dorset BH21 7PE, **Email:** intsales@crydom.com.**GERMANY:** +49 (0)180 3000 506

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5Amp • 120/240 Vac • AC Output

GENERAL SPECIFICATIONS

Dielectric Strength 50/60Hz Input/Output/Base 2500 Vrms

Insulation Resistance (Min.) @ 500 Vdc 10^9 Ohm

Max. Capacitance Input/Output 16 pF

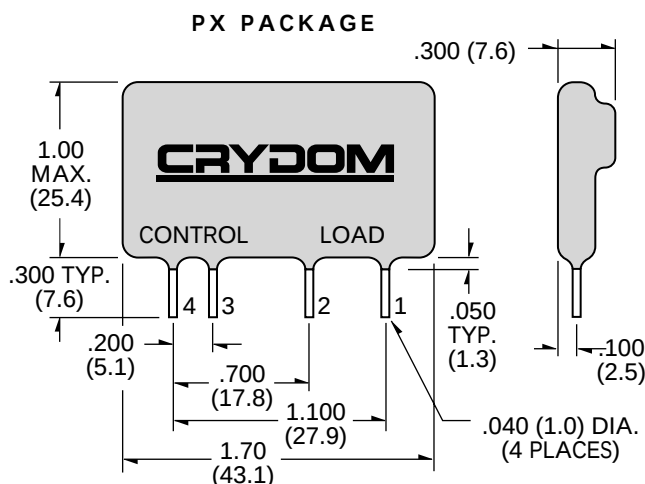
Ambient Operating Temperature Range -30 to 80°C

Ambient Storage Temperature Range -40 to 125°C

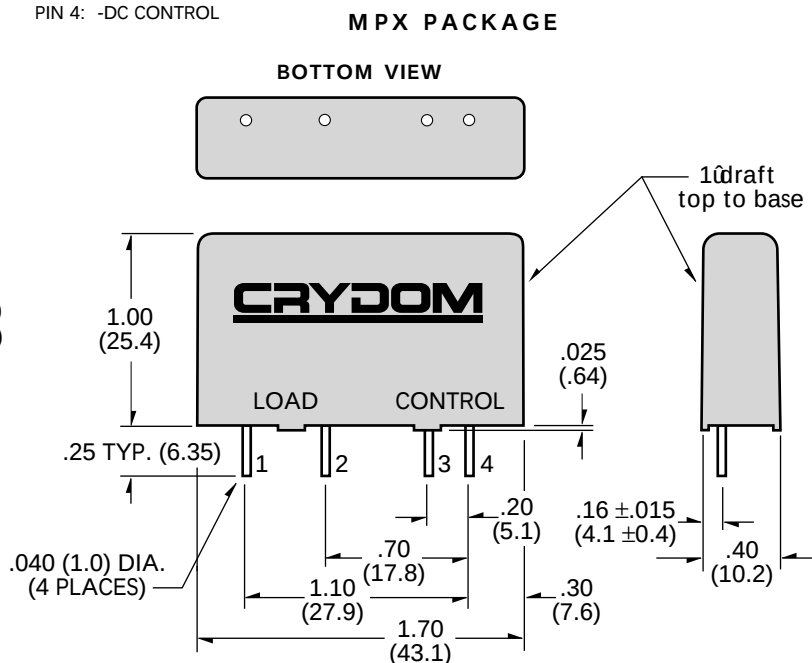
MECHANICAL SPECIFICATIONS

Weight: (typical) 0.4 oz. (11g)

Encapsulation: Thermally Conductive Epoxy

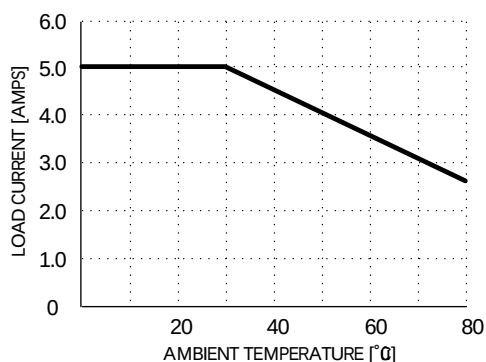


PIN 1: AC LOAD
PIN 2: AC LOAD
PIN 3: +DC CONTROL
PIN 4: -DC CONTROL



All dimensions are in inches (millimeters)

CURRENT DERATING CURVE



Max. Load Current vs. Temp.

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APPROVALS

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