

- 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
<b>OUTPUT SPECIFICATIONS ①</b>			
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 <sup>2</sup> t for Fusing, (8.3 msec.) [A <sup>2</sup> 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

<b>INPUT SPECIFICATIONS ①</b>	
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

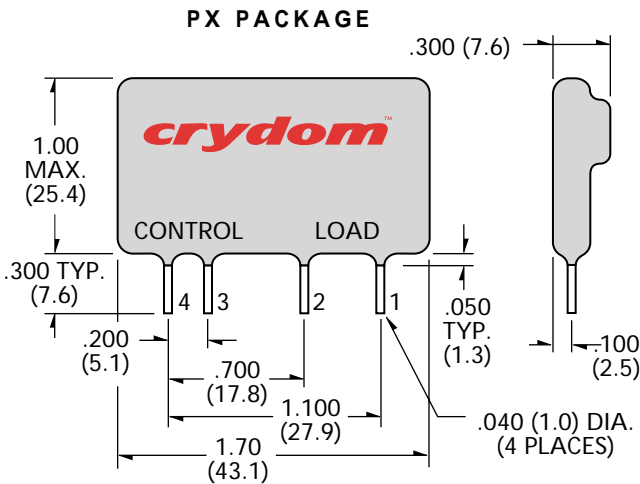
- ① All parameters at 25°C unless otherwise specified.  
 ② Off-State dv/dt test method per EIA/NARM standard RS-443, paragraph 13.11.1  
 ③ Voltage applied for 1 minute.

## GENERAL SPECIFICATIONS

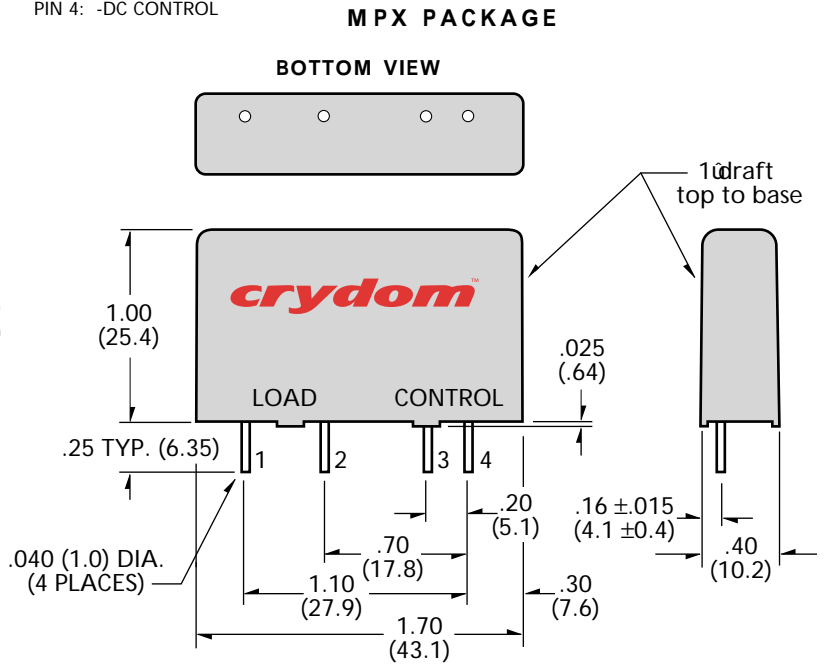
Dielectric Strength 50/60Hz Input/Output/Base	4000 Vrms
Insulation Resistance (Min.) @ 500 Vdc	10 <sup>9</sup> Ohm
Max. Capacitance Input/Output	16 pF
Ambient Operating Temperature Range	-30 to 80°C
Ambient Storage Temperature Range	-40 to 125°C

## MECHANICAL SPECIFICATIONS

Weight: (typical)	0.4 oz. (11g)
Encapsulation:	Thermally Conductive Epoxy

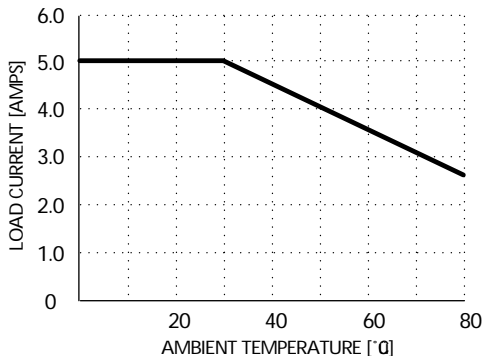


PIN 1: AC LOAD  
 PIN 2: AC LOAD  
 PIN 3: +DC CONTROL  
 PIN 4: -DC CONTROL



All dimensions are in inches (millimeters)

### CURRENT DERATING CURVE



Max. Load Current vs. Temp.

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### APPROVALS

UL E116949 CE

