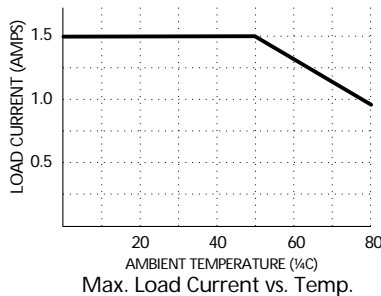


- Low Minimum Operating Current
- SCR Output
- Crydom's Patented Design

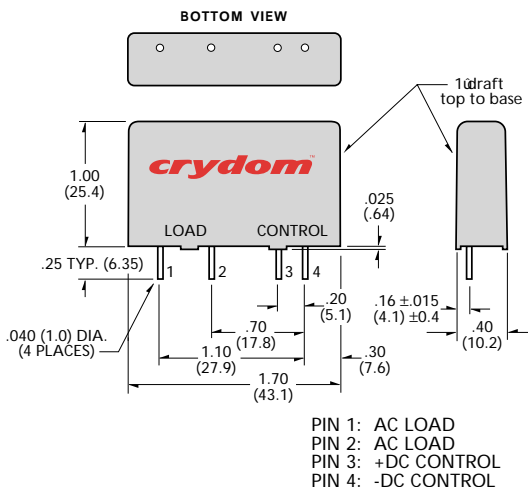
The MCX241 AC Relays are 1.5A rated SPST-NO low profile SIP solid state relays offering the Series ASO circuit in the MP package with CX pin-out. They are designed for switching highly inductive, low current loads such as solenoids. Available in either zero voltage or random switching versions (R suffix).

Manufactured in Crydom's ISO 9001 Certified facility for optimum product performance and reliability.

## CURRENT DERATING CURVE



All dimensions are in inches (millimeters)



MODEL NO.	MCX241	MCX241R
<b>INPUT SPECIFICATIONS ①</b>		
Control Voltage Range	4-10 Vdc	
Nominal Input Impedance	300 Ohm	
Typical Input Current @ 5 Vdc	15 mA <sub>d</sub> c	
Must Turn On Voltage	4.0 Vdc	
Must Turn Off Voltage	1.0 Vdc	

<b>OUTPUT SPECIFICATIONS ①</b>		
Operating Voltage Range (47-63 Hz)	12-280 Vr <sub>r</sub> ms	
Load Current Range	.025-1.5 Arms	
Transient Over-Voltage	600 V <sub>p</sub> k	
Max. Surge Current, (16.6ms)	40 A <sub>p</sub> k	
Min. Off-State dv/dt @ Max. Rated Voltage ③	200 V/μsec	
Max. Off-State Leakage @ Rated Voltage	0.1 mA <sub>r</sub> ms	
Max. On-State Voltage Drop @ Rated Current	1.5 V <sub>p</sub> k	
Max. Turn-On Time	1/2 cycle	0.1 msec
Max. Turn-Off Time	1/2 cycle	
Power Factor (Min.) With Max. Load	0.5	

<b>GENERAL SPECIFICATIONS</b>		
Dielectric Strength ②	4000 Vr <sub>r</sub> ms	
Insulation Resistance (Min.) @ 500 Vdc ②	10 <sup>9</sup> Ohm	
Max. Capacitance	8.0 pF	
Ambient Operating Temperature Range	-40 to 80°C	
Ambient Storage Temperature Range	-40 to 125°C	


<b>MECHANICAL SPECIFICATIONS</b>		
Weight: (typical)	0.7 oz. (20 g)	
Encapsulation:	Thermally Conductive Epoxy	

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## GENERAL NOTES

- ① All parameters at 25°C unless otherwise specified.
- ② Dielectric and insulation resistance are measured between input and output.
- ③ Off-State dv/dt test method per EIA/NARM standard RS-443.

## APPROVALS

UL E116950   
 CSA LR81689  
 VDE 5921 UG

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

