

Solid State Relays - PCB Mount: CX241



Features

SCR output • 1.5Amp • 12-240 Vrms •
AC Switching • Low Profile SIP • DC
control

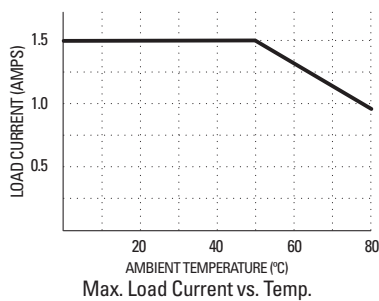
Product	INPUT SPECIFICATIONS	OUTPUT SPECIFICATIONS			
	Control Voltage Range	Load Current	Switching Voltage Type	Turn On	Load Voltage Range
CX241	4-10 Volts DC	0.025-1.5 Amps RMS	AC	Zero cross	12-280 Volts RMS
CX241R	4-10 Volts DC	0.025-1.5 Amps RMS	AC	Random	12-280 Volts RMS

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

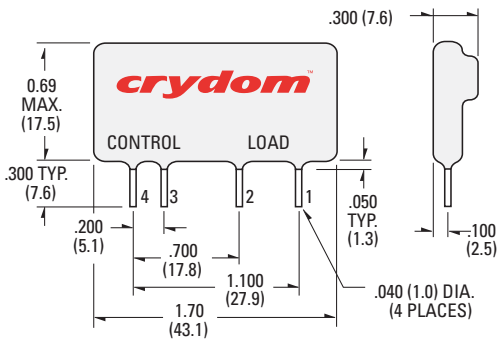
The CX241 AC Relays are 1.5A rated SPST-NO low profile SIP solid state relays offering the Series ASO circuit with the popular CXpin-out. They are designed for switching highly inductive, low current loads such as solenoids. Available in either zero voltage or random switching versions (R suffix).

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

CURRENT DERATING CURVE



MODEL NO.	CX241	CX241R
INPUT SPECIFICATIONS ①		
Control Voltage Range	4-10 Vdc	
Nominal Input Impedance	300 Ohm	
Typical Input Current @ 5 Vdc	15 mAdc	
Must Turn On Voltage	4.0 Vdc	
Must Turn Off Voltage	1.0 Vdc	
OUTPUT SPECIFICATIONS ①		
Operating Voltage Range (47-63 Hz)	12-280 Vrms	
Load Current Range	.025-1.5 Arms	
Transient Over-Voltage	600 Vpk	
Max. Surge Current, (16.6ms)	40 Apk	
Min. Off-State dv/dt @ Max. Rated Voltage ③	500 V/μsec	
Max. Off-State Leakage @ Rated Voltage	0.1 mArms	
Max. On-State Voltage Drop @ Rated Current	1.5 Vpk	
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	
GENERAL SPECIFICATIONS		
Dielectric Strength ②	4000 Vrms	
Insulation Resistance (Min.) @ 500 Vdc ②	10 ⁹ Ohm	
Max. Capacitance	8.0 pF	
Ambient Operating Temperature Range	-30 to 80°C	
Ambient Storage Temperature Range	-30 to 125°C	
MECHANICAL SPECIFICATIONS		
Weight: (typical)	0.4 oz. (11 g)	
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)

© 2007 CRYDOM Inc., Specifications subject to change without notice.

APPROVALS

UL E116950
 CSA LR81689
 VDE 5921 UG



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.

