

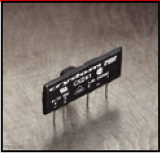


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## Solid State Relays - PCB Mount: CX241



### Features

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

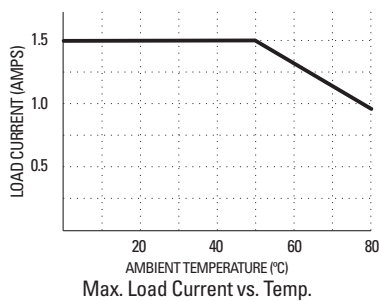
| Product       | INPUT SPECIFICATIONS  |                    | OUTPUT SPECIFICATIONS  |            |                    |
|---------------|-----------------------|--------------------|------------------------|------------|--------------------|
|               | Control Voltage Range | Load Current  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

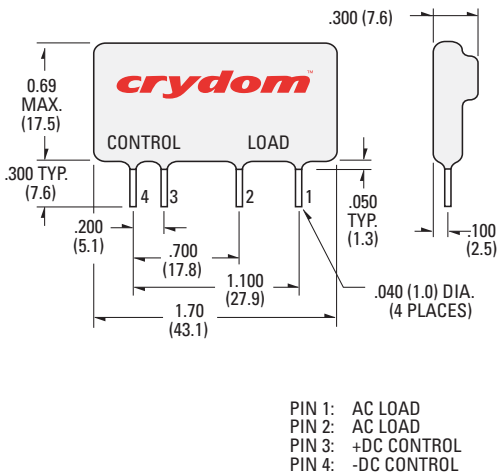
The CX241 AC Relays are 1.5A rated SPST-NO low profile SIP solid state relays offering the Series ASO circuit with the popular CXpin-out. They are designed for switching highly inductive, low current loads such as solenoids. Available in either zero voltage or random switching versions (R suffix).

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

## CURRENT DERATING CURVE



| MODEL NO.                                   | CX241                      | CX241R   |
|---|----------------------------|----------|
| <b>INPUT SPECIFICATIONS ①</b>               |                            |          |
| 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                    |          |
| <b>OUTPUT SPECIFICATIONS ①</b>              |                            |          |
| 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                        |          |
| <b>GENERAL SPECIFICATIONS</b>               |                            |          |
| Dielectric Strength ②                       | 4000 Vrms                  |          |
| Insulation Resistance (Min.) @ 500 Vdc ②    | 10 <sup>9</sup> Ohm        |          |
| Max. Capacitance                            | 8.0 pF                     |          |
| Ambient Operating Temperature Range         | -30 to 80°C                |          |
| Ambient Storage Temperature Range           | -30 to 125°C               |          |
| <b>MECHANICAL SPECIFICATIONS</b>            |                            |          |
| Weight: (typical)                           | 0.4 oz. (11 g)             |          |
| Encapsulation:                              | Thermally Conductive Epoxy |          |



All dimensions are in inches (millimeters)

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## 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.

