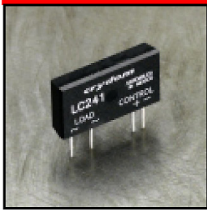


## Solid State Relays - PCB Mount: LC



### Features

- Triac Output • 1.5Amp • 12-280 Vrms • AC Switching • Mini-SIP • DC controlled
- Ideal for low cost solutions.

Product	INPUT SPECIFICATIONS		OUTPUT SPECIFICATIONS		
	Control Voltage Range	Load Current	Switching Voltage Type	Turn On	Load Voltage Range
<a href="#">LC241</a>	4-10 Volts DC	0.025-1.5 Arms	AC	Zero cross	12-280 Volts RMS
<a href="#">LC241R</a>	4-10 Volts DC	0.025-1.5 Arms	AC	Random	12-280 Volts RMS
<a href="#">LC242</a>	4-10 VDC	.025 - 2.0 Arms	AC	Zero-cross	12-280
<a href="#">LC242R</a>	4-10 VDC	.025 - 2.0 Arms	AC	Random Turn-on	12-280

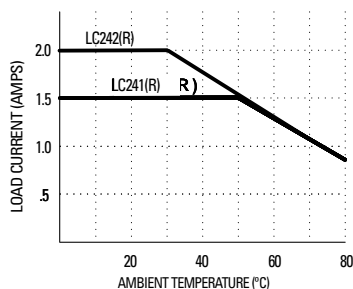


- Compact for High Density PCB Mount
- DC Control, AC Output
- Zero Voltage and Random Turn-On Switching
- Cost effective solution
- Utilizes Crydom High Performance No Snubber Triac

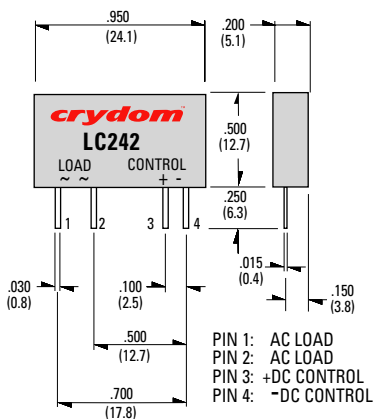
The LC series is rated up to 2.0A (SPST-NO) and is designed for general purpose a.c. loads. In most applications a snubber is not required. Zero-cross and random turn-on (suffix "R") version available.

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

### CURRENT DERATING CURVES



LC Max. Load Current vs. Temp.



### APPROVALS

UL, cUL E116950

MODEL NO.	LC241	LC242
<b>INPUT SPECIFICATIONS</b>		
Control Voltage Range	4-10 Vdc	4-10 Vdc
Nominal Input Impedance	300 Ohm	300 Ohm
Typical Input Current @ 5 Vdc	15 mAdc	15 mAdc
Must Turn On Voltage	4.0 Vdc	4.0 Vdc
Must Turn Off Voltage	1.0 Vdc	1.0 Vdc
<b>OUTPUT SPECIFICATIONS</b>		
Operating Voltage Range (47-63 Hz)	12-280 Vrms	12-280 Vrms
Load Current Range	.025 - 1.5Arms	.025 - 2.0Arms
Transient Over-Voltage	600 Vpk	600 Vpk
Max. Surge Current, (16.6ms)	80 Apk	100 Apk
Min. Off-State dv/dt @ Max. Rated Voltage	500 V/μsec	500 V/μsec
Max. Off-State Leakage @ Rated Voltage	0.1 mArms	0.1 mArms
Max. On-State Voltage Drop @ Rated Current	1.5 Vpk	1.5 Vpk
Max. Turn-On Time ④	1/2 cycle	1/2 cycle
Max. Turn-Off Time	1/2 cycle	1/2 cycle
Power Factor (Min.) W/Max. Load	0.5	0.5
<b>GENERAL SPECIFICATIONS</b>		
Dielectric Strength	2500 Vrms	
Insulation Resistance (Min.) @ 500 Vdc	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)	0.15 oz. (4.3 g)	
Encapsulation:	UL94V-0 Molded epoxy	

### GENERAL NOTES

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

- ① All parameters at 25° C unless otherwise specified.
- ② Dielectric and insulation resistance measured between input and output.
- ③ Off-State dv/dt test method per EIA/NARM standard RS-443.
- ④ 0.1 msec for random turn-on version (R suffix).

