

Solid State Relays - PCB Mount: SDV/SDI



Features

SCR output • 1.5Amp • 120/240 Vac • 16 PIN DIP Package • Current and voltage control • Snubberless.

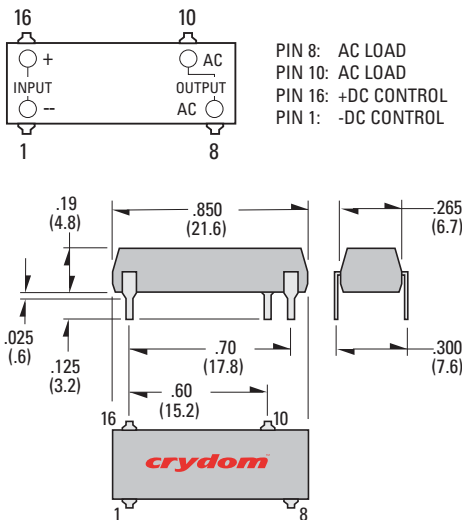
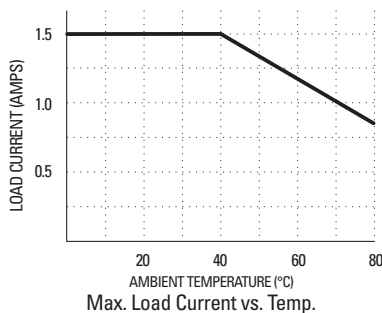
Product	INPUT SPECIFICATIONS		OUTPUT SPECIFICATIONS		
	Control Voltage Range	Load Current	Switching Voltage Type	Turn On	Load Voltage Range
SDI2415	10-35 mA DC	0.025-1.5 Amps RMS	AC	Zero cross	12-280 Volts RMS
SDI2415R	10-35 mA DC	0.025-1.5 Amps RMS	AC	Random	12-280 Volts RMS
SDV2415	3.5-10 Volts DC	0.025-1.5 Amps RMS	AC	Zero cross	12-280 Volts RMS
SDV2415R	3.5-10 Volts DC	0.025-1.5 Amps RMS	AC	Random	12-280 Volts RMS

- Compact for High Density PCB Mount
- DC Control
- SCR Output

The Series SDV and SDI solid state relays are rated at 1.5 Amps RMS at ambient temperatures up to 40°C. The compact 16 pin DIP package is perfect for high density printed circuit boards. The SDV is voltage operated, and the SDI is current operated. Both are offered in either zero voltage or random switching (R) versions.

Manufactured in Crydom's ISO 9002 Certified facility for optimum product performance and reliability.

CURRENT DERATING CURVE



All dimensions are in inches (millimeters)

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 116950
CSA LR81689



MODEL NO.	SDV2415	SDV2415R	SDI2415	SDI2415R
INPUT SPECIFICATIONS ①				
Control Voltage Range	3.5-10 Vdc	3.5-10 Vdc	—	—
Control Current Range	—	—	10-35 mA	10-35 mA
Nominal Input Impedance	270 Ohm	270 Ohm	—	—
Typical Input Current @ 5 Vdc	15 mAdc	15 mAdc	—	—
Must Turn On Voltage	3.5 Vdc	3.5 Vdc	—	—
Must Turn On Current	—	—	10 m A	10 m A
Must Turn Off Voltage	1.0 Vdc	1.0 Vdc	—	—
Must Turn Off Current	—	—	1 m A	1 m A
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)	30 Apk			
Min. Off-State dv/dt @ Max. Rated Voltage ③	500 V/μsec			
Max. Off-State Leakage @ Rated Voltage	.01 mArms			
Max. On-State Voltage Drop @ Rated Current	1.2 Vpk			
Max. Turn-On Time	1/2 cycle	0.1 msec	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	3750 Vrms			
Insulation Resistance (Min.) @ 500 Vdc ②	10 ⁹ Ohm			
Max. Capacitance, Input-Output	2.0 pF			
Ambient Operating Temperature Range	-30 to 80°C			
Ambient Storage Temperature Range	-30 to 125°C			
MECHANICAL SPECIFICATIONS				
Weight: (typical)	.10 oz. (2.9 g)			
Encapsulation:	Thermally Conductive Epoxy			

