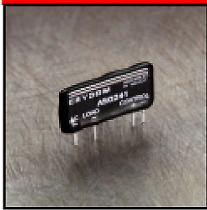


Solid State Relays - PCB Mount: ASO



Features

SCR or Triac output • 1.0-2.0Amp • 120/240 Vrms • AC Switching • Mini-SIP • DC control.

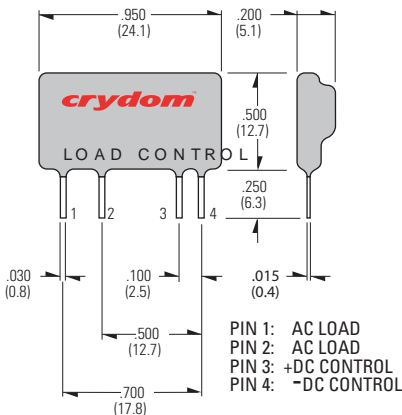
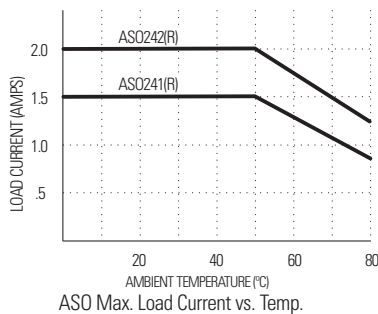
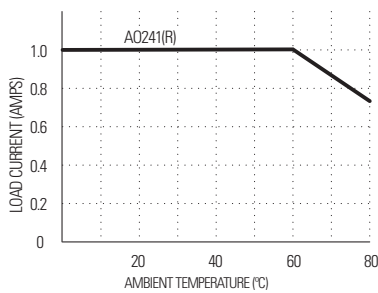
Product	INPUT SPECIFICATIONS		OUTPUT SPECIFICATIONS		
	Control Voltage Range	Load Current	Switching Voltage Type	Turn On	Load Voltage Range
AO241	4-10 Volts DC	0.025-1 Amps RMS	AC	Zero cross	24-280 Volts RMS
AO241R	4-10 Volts DC	0.025-1 Amps RMS	AC	Random	24-280 Volts RMS
ASO241	4-10 Volts DC	0.025-1.5 Amps RMS	AC	Zero cross	12-280 Volts RMS
ASO241R	4-10 Volts DC	0.025-1.5 Amps RMS	AC	Random	12-280 Volts RMS
ASO242	4-10 Volts DC	0.06-2 Amps RMS	AC	Zero cross	12-280 Volts RMS
ASO242R	4-10 Volts DC	0.06-2 Amps RMS	AC	Random	12-280 Volts RMS

- Compact for High Density PCB Mount
- DC Control, AC Output
- Triac (AO) or SCR (ASO) Output
- Crydom's Patented Design

AO models offer Triac output, ASO models are SCR output. The AO241(R) are rated up to 1.0A, the ASO241(R) up to 1.5A SPST-NO, and the ASO242(R) up to 2.0A. ASO models are designed for switching highly inductive, low current loads such as solenoids. Available in either zero voltage or random switching (R) versions.

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

CURRENT DERATING CURVES



APPROVALS

UL E116950
CSA LR81689
CE

MODEL NO.	AO241	AO241R	ASO241	ASO241R	ASO242	ASO242R
INPUT SPECIFICATIONS ①						
Control Voltage Range	4-10 Vdc		4-10 Vdc		4-10 Vdc	
Nominal Input Impedance	300 Ohm		300 Ohm		300 Ohm	
Typical Input Current @ 5 Vdc	15 mAdc		15 mAdc		15 mAdc	
Must Turn On Voltage	4.0 Vdc		4.0 Vdc		4.0 Vdc	
Must Turn Off Voltage	1.0 Vdc		1.0 Vdc		1.0 Vdc	
OUTPUT SPECIFICATIONS ①						
Operating Voltage Range (47-63 Hz)	24-280 Vrms		12-280 Vrms		12-280 Vrms	
Load Current Range	.025-1.0 Arms		.025-1.5 Arms		.06-2.0 Arms	
Transient Over-Voltage	600 Vpk		600 Vpk		600 Vpk	
Max. Surge Current, (16.6ms)	40 Apk		40 Apk		120 Apk	
Min. Off-State dv/dt @ Max. Rated Voltage ③	500 V/μsec		500 V/μsec		500 V/μsec	
Max. Off-State Leakage @ Rated Voltage	0.1 mArms		0.1 mArms		0.1 mArms	
Max. On-State Voltage Drop @ Rated Current	1.5 Vpk		1.5 Vpk		1.5 Vpk	
Max. Turn-On Time	1/2 cycle	0.1 msec	1/2 cycle	0.1 msec	1/2 cycle	0.1 msec
Max. Turn-Off Time	1/2 cycle		1/2 cycle		1/2 cycle	
Power Factor (Min.) W/ith Max. Load	0.5		0.5		0.5	

GENERAL SPECIFICATIONS

Dielectric Strength ②	2500 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)	0.15 oz. (4.3 g)
Encapsulation:	Thermally Conductive Epoxy

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.

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