| ASO SERIES
PCB MOUNT

Features

- Mini-SIP SSR
- Ratings to 2A @ 280 VAC
- SCR output
- DC control
- Zero-crossing (resistive loads) or random-fire (inductive loads) output

PRODUCT SELECTION

Control Voltage	1.5 A	2 A
4-10 VDC	ASO241	ASO242

SPECIFICATIONS

Output [(1)]

Description	ASO241	ASO242
Operating Voltage (47-63Hz) [Vrms]	12-280	12-280
Transient Overvoltage [Vpk]	600	600
Maximum Off-State Leakage Current @ Rated Voltage [mA]	0.1	0.1
Minimum Off-State dv/dt @ Maximum Rated Voltage [V/µsec] [3]	500	500
Maximum Load Current [Arms] [3]	1.5	2.0
Minimum Load Current [Arms]	0.025	0.06
Maximum Surge Current (16.6ms) [Apk]	40	120
Maximum On-State Voltage Drop @ Rated Current [Vpk]	1.5	1.5
Minimum Power Factor (with Maximum Load)	0.5	0.5

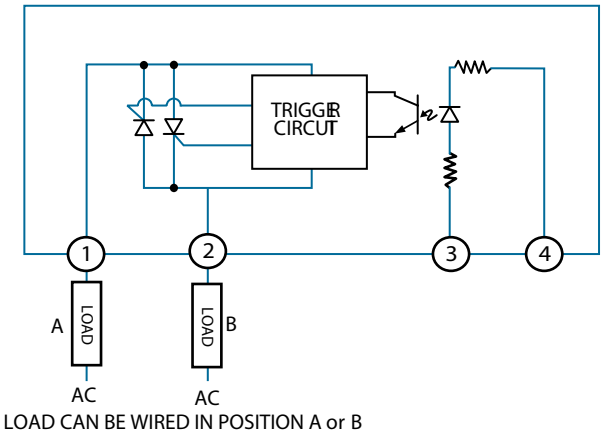
Input [1]

Description	Parameters
Control Voltage Range	4-10 VDC
Must Turn On Voltage	4.0 VDC
Must Turn Off Voltage	1.0 VDC
Typical Input Current @ 5 VDC	15 mAdc
Nominal Input Impedance	300 Ohm
Maximum Turn-On Time [msec]	1/2 Cycle
Maximum Turn-Off Time [msec]	1/2 Cycle

General [1]

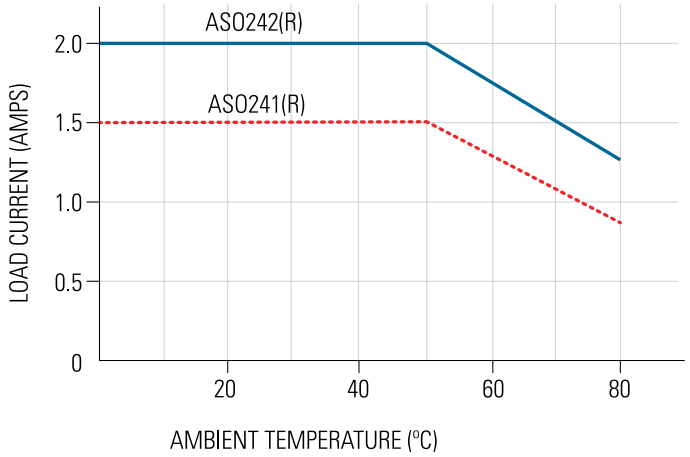
Description	Parameters
Dielectric Strength, Input/Output/Base (50/60Hz) [2]	2500 Vrms
Minimum Insulation Resistance (@ 500 V DC) [2]	10^9 Ohms
Maximum Capacitance, Input/Output	8.0 pF
Ambient Operating Temperature Range	-30°C to 80°C
Ambient Storage Temperature Range	-30°C to 125°C
Weight (typical)	0.07 oz. (1.9g)
Encapsulation	Thermally Conductive Epoxy

WIRING DIAGRAM



LOAD CAN BE WIRED IN POSITION A or B

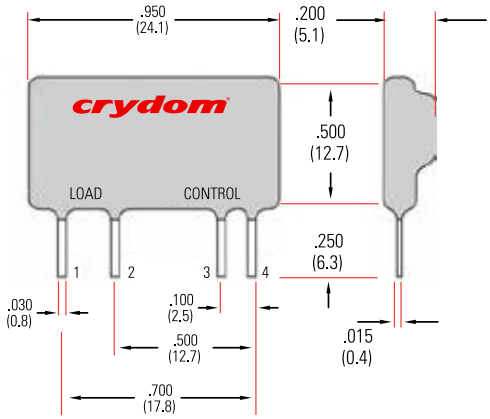
THERMAL DERATE INFORMATION



ASO Max. Load Current vs. Temp.

MECHANICAL SPECIFICATIONS

*Tolerances: ±0.02 in / 0.5 mm
All dimensions are in: inches [millimeters]



ORDERING OPTIONS

Example : ASO241-R

ASO	-	241	-	R

Series

ASO

Operational Current

241: 1.5 Amps
242: 2 Amps

Switching Mode

Blank: Zero Voltage Turn-On
R: Random Turn-On

— Required for valid part number
☐ For options only and not required for valid part number

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

AGENCY APPROVALS & CERTIFICATIONS

E116950 LR81689 RoHS

WARNINGS

RISK OF MATERIAL DAMAGE AND HOT ENCLOSURE
- The product's side panels may be hot, allow the product to cool before touching
- Follow proper mounting instructions including torque values
- Do not allow liquids or foreign objects to enter this product

Failure to follow these instructions can result in serious injury, or equipment damage.

HAZARD OF ELECTRIC SHOCK, EXPLOSION OR ARC FLASH
- Disconnect all power before installing or working with this equipment
- Verify all connections and replace all covers before turning on power

Failure to follow these instructions will result in death or serious injury.

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Rev. 03/21/2024 ECN 20395 FDE-07-01 Rev. B

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