

| MCMX SERIES

PCB MOUNT SOLID STATE RELAYS



Features

- SIP SSR
- Ratings to 5A @ 60 VDC, 10A @ 60 VDC and 6A @ 100 VDC
- MOSFET output
- DC control
- Low on-state impedance

PRODUCT SELECTION

Control Voltage	5 A	6 A	10 A
3-10 VDC	MCMX60D5	MCMX100D6	MCMX60D10

SPECIFICATIONS

Output ⁽¹⁾ (3)

Description	5 A	6 A	10 A
Operating Voltage [VDC]	0-60	0-100	0-60
Maximum Off-State Leakage Current @ Rated Voltage [μ Adc]	100	100	100 ⁽⁴⁾
Maximum Load Current [Arms]	5	6	10
Minimum Load Current [mArms]	2	2	2
Maximum On-State Resistance [Ohm]	.10	.040	.018
Maximum Surge Current (10 msec) [Apk]	60	100	100
Maximum On-State Voltage Drop @ Rated Current [VDC]	0.5	0.24	0.18

Input ⁽¹⁾

Control Voltage Range	3-10 VDC
Must Turn On Voltage	3.0 VDC
Must Turn Off Voltage	1.0 VDC
Typical Input Current @ 5 VDC	15 mA
Nominal Input Impedance	300 Ohms
Maximum Turn-On Time [msec]	2.0
Maximum Turn-Off Time [µsec]	600

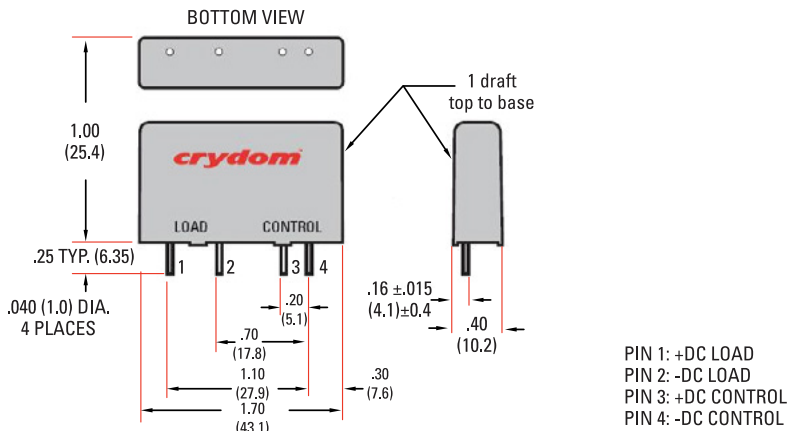
General

Dielectric Strength, Input/Output/Base (50/60 Hz) ⁽²⁾	2500 Vrms
Minimum Insulation Resistance (@ 500 VDC) ⁽²⁾	10 ⁹ Ohms
Maximum Capacitance, Input/Output	15 pF
Ambient Operating Temperature Range	-40°C to 80°C
Ambient Storage Temperature Range	-40°C to 125°C
Weight (typical)	0.7 oz (20 g)
Encapsulation	Thermally Conductive Epoxy
Enclosure and PCB	Meets the requirements of IEC60335-1

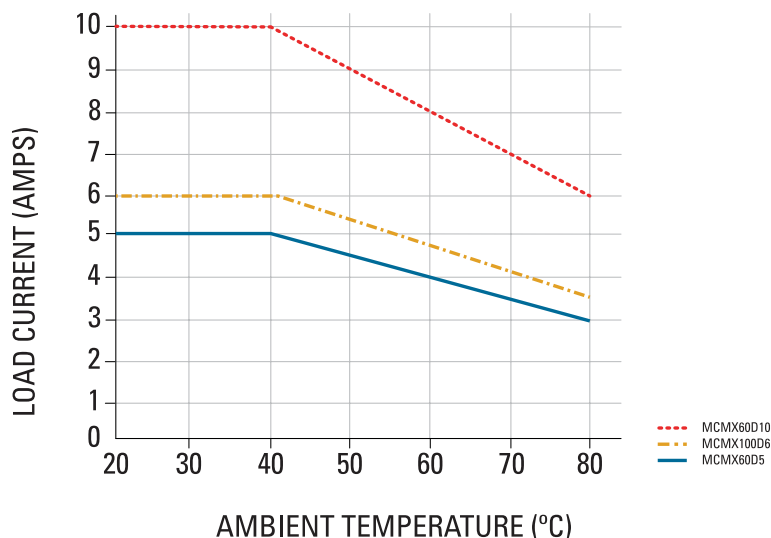
GENERAL NOTES

- ⁽¹⁾ All parameters at 25°C unless otherwise noted.
- ⁽²⁾ Dielectric and insulation resistance are measured between input and output.
- ⁽³⁾ Inductive loads should be diode suppressed.
- ⁽⁴⁾ At 55 Vdc.

MECHANICAL SPECIFICATIONS



THERMAL DERATE INFORMATION



AGENCY APPROVALS & CERTIFICATIONS

- IEC60335-1: Resistance to heat and fire meets the requirements of section 30, evaluated by TUV SUD.
Glow Wire Test, per requirements of IEC/EN 60695-2-10 and IEC/EN 60695-2-11
Ball Pressure Test, per requirements of IEC/EN 60695-10-2

UL E116950 (6 and 10 A Models Only)



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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