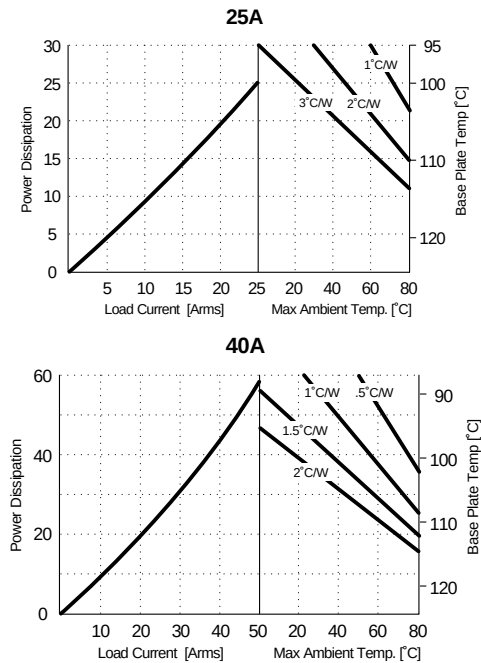


- DC or AC Control
- Zero Cross and Random Switching
- Up to 1200V Transient Capability
- SCR Output
- PCB Mount
- Low Profile

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

| MODEL NUMBERS | Zero Cross Turn-on | LR600240D25  | LR600240D40  | LR1200480D25  | LR1200480D40  |
|---------------|--------------------|--------------|--------------|---------------|---------------|
|               | Random Turn-on     | LR600240D25R | LR600240D40R | LR1200480D25R | LR1200480D40R |

## CURRENT DERATING CURVES



## OUTPUT SPECIFICATIONS ①

|                                                                   |           |           |           |           |
|-------------------------------------------------------------------|-----------|-----------|-----------|-----------|
| Operating Voltage Range (47-63 Hz) [Vrms]                         | 24-280    | 24-280    | 48-530    | 48-530    |
| Load Current Range [Arms]                                         | 0.15-25   | 0.15-40   | 0.15-25   | 0.15-40   |
| Transient Over-Voltage [Vpk]                                      | 600       | 600       | 1200      | 1200      |
| Max. Surge Current Non-Repetitive, (16.6ms) [Apk]                 | 250       | 400       | 250       | 400       |
| Max. I <sup>2</sup> t For Fusing (8.3 msec.) [A <sup>2</sup> sec] | 260       | 660       | 260       | 660       |
| Min. Off-State dv/dt @ Max. Rated Voltage [V/μsec] ③              | 500       | 500       | 500       | 500       |
| Max. Off-State Leakage @ Rated Voltage [mArms]                    | 0.1       | 0.1       | 0.1       | 0.1       |
| Max. On-State Voltage Drop @ Rated Current [Vpk]                  | 1.6       | 1.6       | 1.6       | 1.6       |
| Max. Turn-On Time ④                                               | 1/2 cycle | 1/2 cycle | 1/2 cycle | 1/2 cycle |
| Max. Turn-Off Time                                                | 1/2 cycle | 1/2 cycle | 1/2 cycle | 1/2 cycle |
| Power Factor (Min.) With Max. Load                                | 0.5       | 0.5       | 0.5       | 0.5       |

## INPUT SPECIFICATIONS ①

|                                   | 120 Vac Control ⑥ | DC Control  | 240V AC Control ⑥ |
|-----------------------------------|-------------------|-------------|-------------------|
| Control Voltage Range             | 90-140 Vac        | 4-32 Vdc    | 180-260 Vac       |
| Must Turn On Voltage              | 90 Vac            | 4 Vdc       | 180 Vac           |
| Must Turn Off Voltage             | 10 Vac            | 1 Vdc       | 10 Vac            |
| Typical Input Current at 5Vdc ⑤ ⑥ | 15mA@120 Vac      | 9 mA@ 5 Vdc | 11mA@ 240Vac      |

## GENERAL SPECIFICATIONS

|                                          |                     |
|------------------------------------------|---------------------|
| Dielectric Strength ②                    | 2500 Vrms           |
| Insulation Resistance (Min.) @ 500 Vdc ② | 10 <sup>9</sup> 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) 0.5 oz. (14.4 g)

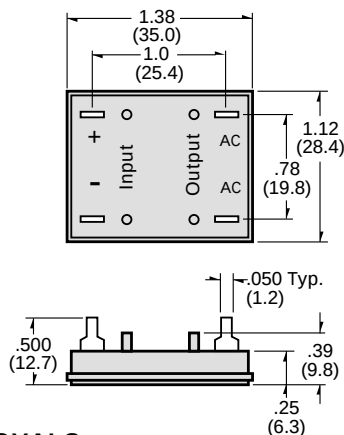
## GENERAL NOTES

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- 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.
- ④ Turn on time for random switching models is 0.1 ms (use suffix when ordering random turn on version)
- ⑤ DC Input circuitry incorporates active current limiter.
- ⑥ Use suffix -120 for 120Vac control and -240 for 240Vac control.

## MECHANICAL DIMENSIONS

All dimensions are in inches (millimeters)



## APPROVALS

UL (Pending)  
CSA (Pending)  
VDE (Pending)

