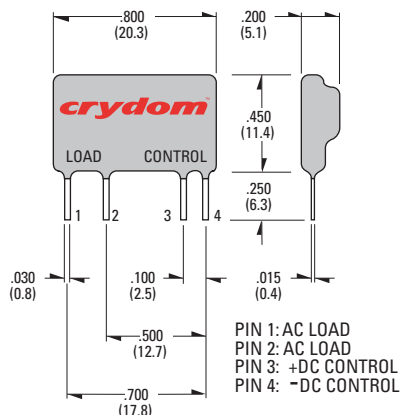
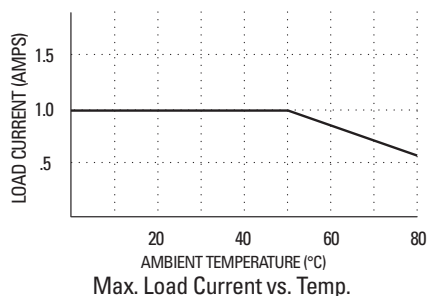


- Compact for High Density PCB Mount
- DC Control, AC Output
- SCR Output
- Crydom's Patented Design
- Zero Cross Switching

The Series SPA solid state relays are rated at 1.0 Amp RMS at ambient temperatures up to 40°C. The compact 4 pin SIP package is perfect for high density printed circuit boards

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

### CURRENT DERATING CURVE



| MODEL NO.                                   | SPA4191                    | SPA6191       |
|---------------------------------------------|----------------------------|---------------|
| <b>INPUT SPECIFICATIONS ①</b>               |                            |               |
| Control Current Range                       | 10-35 mA                   | 10-35 mA      |
| Must Turn On Current                        | 10 mA                      | 10 mA         |
| Must Turn Off Current                       | 1 mA                       | 1 mA          |
| <b>OUTPUT SPECIFICATIONS ①</b>              |                            |               |
| Operating Voltage Range (47-63 Hz)          | 20-140 Vrms                | 20-280 Vrms   |
| Load Current Range                          | .025-1.0 Arms              | .025-1.0 Arms |
| Transient Over-Voltage                      | 400 Vpk                    | 600 Vpk       |
| Max. Surge Current, (16.6ms)                | 30 Apk                     | 30 Apk        |
| Min. Off-State dv/dt @ Max. Rated Voltage ③ | 500 V/μsec                 | 500 V/μsec    |
| Max.Off-State Leakage @ Rated Voltage       | 0.01 mArms                 | 0.01 mArms    |
| Max. On-State Voltage Drop @ Rated Current  | 1.5 Vpk                    | 1.5 Vpk       |
| Max.Turn-On Time                            | 1/2 cycle                  | 1/2 cycle     |
| Max. Turn-Off Time                          | 1/2 cycle                  | 1/2 cycle     |
| Power Factor (Min.) Wlth Max. Load          | 0.5                        | 0.5           |
| <b>GENERAL SPECIFICATIONS</b>               |                            |               |
| 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               |               |
| <b>MECHANICAL SPECIFICATIONS</b>            |                            |               |
| Weight: (typical)                           | 0.15 oz. (4.3 g)           |               |
| Encapsulation:                              | Thermally Conductive Epoxy |               |

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### 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.