



Series SPA

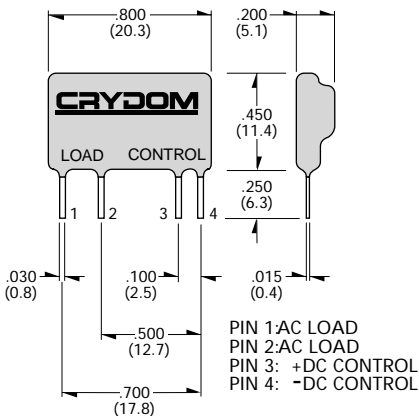
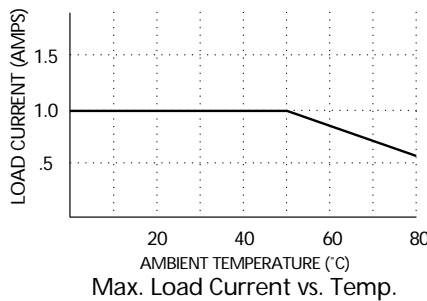
1.0 Amp • 120, 240 Vac • AC Output MINI-SIP

- 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 |
|-------------------------------|----------|----------|
| INPUT SPECIFICATIONS ① | | |
| 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 |

| | | |
|---|---------------|---------------|
| OUTPUT SPECIFICATIONS ① | | |
| 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.) With Max. Load | 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 |

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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.

