



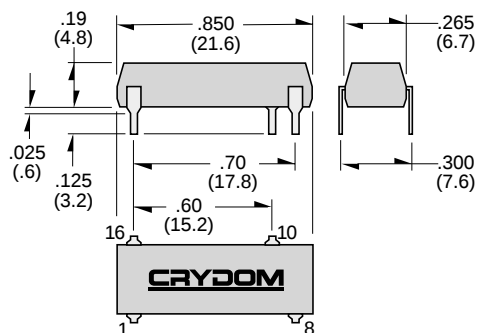
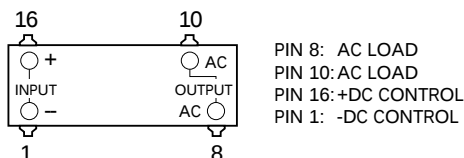
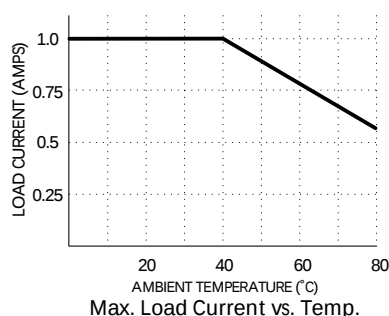
Series DPA

1.0 Amp • 120, 240 Vac • 16 PIN DIP Package

- **Compact for High Density PCB Mount**
- **DC Control**
- **SCR Output**
- **Zero Cross Switching**

The Series DPA solid state relays are rated at 1.0 Amp RMS at ambient temperatures up to 40°C. The compact 16 pin DIP package is perfect for high density printed circuit boards. The DPA is offered in your choice of either voltage or current operated versions. Manufactured in Crydom's ISO 9002 Certified facility for optimum product performance and reliability.

CURRENT DERATING CURVE



All dimensions are in inches (millimeters)

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.

APPROVALS

UL E116950
CSA LR81689



FastFax Document No.101
SERIES DPA
Rev. 021302
PAGE 1 OF 1

MODEL NO.	DPA4111	DPA4119	DPA6111	DPA6119
INPUT SPECIFICATIONS ①				
Control Voltage Range	—	3.5-10 Vdc	—	3.5-10 Vdc
Control Current Range	10-35 mA	—	10-35 mA	—
Nominal Input Impedance	—	270 Ohm	—	270 Ohm
Typical Input Current @ 5 Vdc	—	15 mAdc	—	15 mAdc
Must Turn On Voltage	—	3.5 Vdc	—	3.5 Vdc
Must Turn On Current	10 mA	—	10 mA	—
Must Turn Off Voltage	—	1.0 Vdc	—	1.0 Vdc
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	.01 - 1.0 Arms	
Transient Over-Voltage	400 Vpk	600 Vpk
Max. Surge Current, (16.6ms)	30 Apk	
Min. Off-State dv/dt @ Max. Rated Voltage ③	500 V/μsec	
Max.Off-State Leakage @ Rated Voltage	.01 mArms	
Max. On-State Voltage Drop @ Rated Current	1.2 Vpk	
Max.Turn-On Time	1/2 cycle	
Max. Turn-Off Time	1/2 cycle	
Power Factor (Min.) With Max. Load	0.5	

GENERAL SPECIFICATIONS				
Dielectric Strength ②	3750 Vrms			
Insulation Resistance (Min.) @ 500 Vdc ②	10 ⁹ Ohm			
Max. Capacitance, Input-Output	2.0 pF			
Ambient Operating Temperature Range	-30 to 80½C			
Ambient Storage Temperature Range	-30 to 125½C			

MECHANICAL SPECIFICATIONS				
Weight: (typical)	.10 oz. (2.9 g)			
Encapsulation:	Thermally Conductive Epoxy			

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For recommended applications and more information contact:

USA: Sales Support (877) 502-5500 **Tech Support** (877) 702-7700 **FAX** (619) 710-8540
Crydom Corp, 2320 Paseo de las Americas, Ste. 201, San Diego, CA 92154
Email: sales@crydom.com **WEB SITE:** http://www.crydom.com
UK: +44 (0)1202 365070 • **FAX** +44 (0)1202 365090 Crydom International Ltd., 7 Cobham Road, Ferndown Industrial Estate, Ferndown, Dorset BH21 7PE, **Email:** intsales@crydom.com.
GERMANY: +49 (0)180 3000 506

