



## Solid State Relays - PCB Mount: DPA

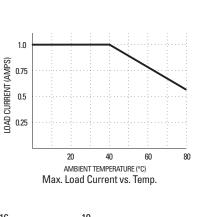


		INPUT SPECIFICATIONS	OUTPUT SPECIFICATIONS			
Features	Product	Control Voltage Range	Load Current	Switching Voltage Type	Turn On	Load Voltage Range
SCR output • 1.0Amp • 120/240 Vrms •	DPA4111	10-35 mA DC	0.025-1 Amps RMS	AC	Zero cross	20-140 Volts RMS
16 PIN DIP Package ● Current and voltage control versions.	DPA4119	3.5-10 Volts DC	0.025-1 Amps RMS	AC	Zero cross	20-140 Volts RMS
	DPA6111	10-35 mA DC	0.025-1 Amps RMS	AC	Zero cross	20-280 Volts RMS
	DPA6119	3.5-10 Volts DC	0.025-1 Amps RMS	AC	Zero cross	20-280 Volts RMS

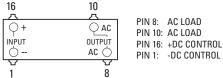


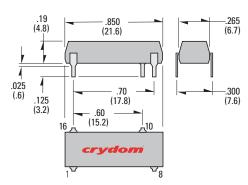
- Compact for High Density PCB Mount
- DC Control
- SCR Output
- Zero Cross Switching

The Series DPA solid state relays are rated at 1.0 Amp RMS at ambient temperatures up to 40ûC. 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 CrydomÕs ISO 9001 Certified facility for optimum product performance and reliability.



**CURRENT DERATING CURVE** 





All dimensions are in inches (millimeters)

## **GENERAL NOTES**

0 All parameters at 25°C unless otherwise specified.

 $\ensuremath{\textcircled{O}}$  Dielectric and insulation resistance are measured between input and output.

③ Off-State dv/dt test method per EIA/NARM standard RS-443.

CE

## **APPROVALS**

UL	E116950
CSA	LR81689

SERIES DPA
Rev. 052207
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MODEL NO.	DPA4111	DPA4119	DPA6111	DPA6119	
INPUT SPECIFICATIONS ①			217.0111		
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		1.0Vdc		1.0Vdc	
Must Turn Off Current	1 mA		1 mA —		
<b>OUTPUT SPECIFICATIONS</b> ① Operating Voltage Range (47-63 Hz)	20-140 Vrms 20-280 Vrms		Vrms		
Load Current Range	.025 - 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 $$ $\!$	10 <sup>9</sup> Ohm				
Max. Capacitance, Input-Output	2.0 pF				
Ambient Operating Temperature Range	-30 to 80°C				
Ambient Storage Temperature Range	-30 to 125°C				
MECHANICAL SPECIFICATIONS Weight: (typical)		.10 oz.	(2.9 g)		
Encapsulation:	Thermally Conductive Epoxy				
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