



| DPA SERIES

PCB MOUNT



Features

- 16 Pin DIP SSR
- Ratings to 1 A @ 280 VAC
- SCR output
- Voltage or current-control input
- Zero-crossing (resistive loads) output



PRODUCT SELECTION

Control Voltage	120V	240V
3-32 VDC	DPA4119	DPA6119
10-35 mA	DPA4111	DPA6111



ORDERING OPTIONS

Series	DPA	41	19
DPA			
Load Current			
41: 20-140 VAC			
61: 20-280 VAC			
Circuit Type			
11: 10-35 mA DC			
19: 3.5-10 VDC			

Required for valid part number
For options only and not
required for valid part number



OUTPUT SPECIFICATIONS ⁽¹⁾

Description	DPA41xx	DPA61xx
Operating Voltage (47-63Hz) [Vrms]	20-140	20-280
Transient Overvoltage [Vpk]	400	600
Maximum Off-State Leakage Current @ Rated Voltage [mArms]	0.01	0.01
Minimum Off-State dv/dt @ Maximum Rated Voltage [V/μsec] (3)	500	500
Maximum Load Current [Arms]	1.0	1.0
Minimum Load Current [Arms]	0.025	0.025
Maximum Surge Current (16.6ms) [Apk]	30	30
Maximum On-State Voltage Drop @ Rated Current [Vpk]	1.2	1.2
Minimum Power Factor (with Maximum Load)	0.5	0.5

INPUT SPECIFICATIONS ⁽¹⁾

Description	DPAx11	DPAx19
Control Voltage Range	-	3.5-10 VDC
Control Current Range	10-35 mA	-
Must Turn Off-State Current	1.0 mA	-
Must Turn Off-State Voltage	-	1.0 VDC
Typical Input Current @ 5 VDC	-	15 mAdc
Nominal Input Impedance	-	270 Ohm
Maximum Turn-On Time [msec]	1/2 Cycle	1/2 Cycle
Maximum Turn-Off Time [msec]	1/2 Cycle	1/2 Cycle

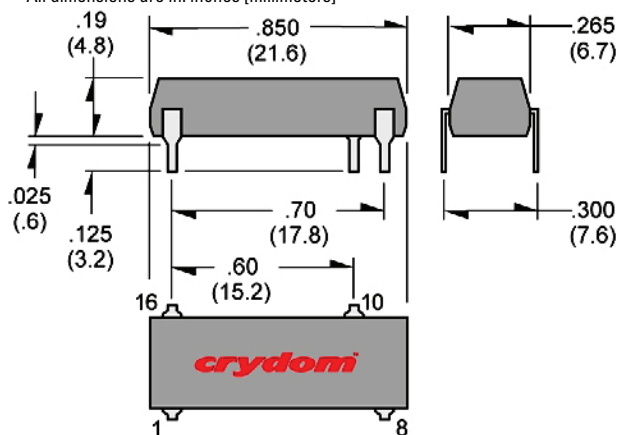
GENERAL SPECIFICATIONS

Description	Parameters
Dielectric Strength, Input/Output/Base (50/60Hz) ⁽²⁾	3750 Vrms
Minimum Insulation Resistance (@ 500 VDC) ⁽²⁾	10 ⁹ Ohm
Maximum Capacitance, Input/Output	2.0 pF
Ambient Operating Temperature Range	-30 to 80°C
Ambient Storage Temperature Range	-30 to 125°C
Weight (typical)	0.1 oz. (2.9g)
Encapsulation	Thermally Conductive Epoxy

MECHANICAL SPECIFICATIONS

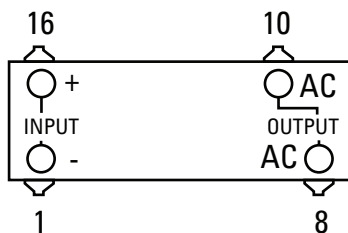
Tolerances: ±0.02 in / 0.5 mm

All dimensions are in: inches [millimeters]



PIN 8: AC LOAD
PIN 10: AC LOAD
PIN 16: +DC CONTROL
PIN 1: -DC CONTROL

WIRING DIAGRAM



GENERAL NOTES

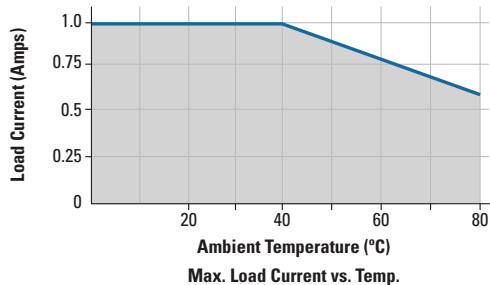
⁽¹⁾ All parameters at 25°C unless otherwise specified.

⁽²⁾ Dielectric and insulation resistance are measured between input and output

⁽³⁾ Off-State dv/dt test method per EIA/NARM standard RS



THERMAL DERATE INFORMATION



AGENCY APPROVALS AND CERTIFICATIONS

UL E116950
CSA LR81689



WARNINGS



RISK OF MATERIAL DAMAGE AND HOT ENCLOSURE

- The product's side panels may be hot, allow the product to cool before touching
 - Follow proper mounting instructions including torque values
 - Do not allow liquids or foreign objects to enter this product
- Failure to follow these instructions can result in serious injury, or equipment damage.**



HAZARD OF ELECTRIC SHOCK, EXPLOSION OR ARC FLASH

- Disconnect all power before installing or working with this equipment
 - Verify all connections and replace all covers before turning on power
- Failure to follow these instructions will result in death or serious injury**

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