| 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

DPA – 41 – 19

Series
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)

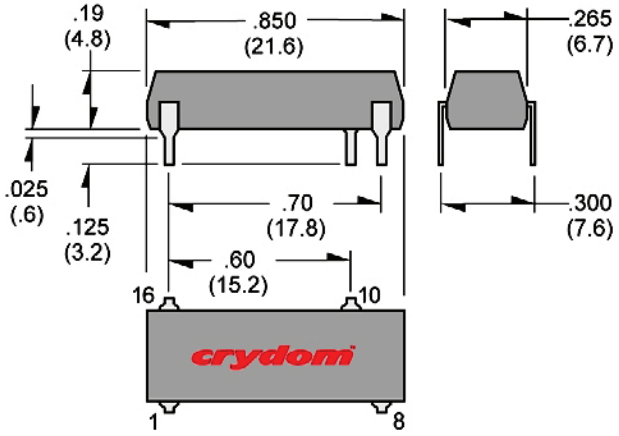
Description	DPAxx11	DPAxx19
Control Voltage Range	-	3.5-10 VDC
Control Current Range	10-35 mA	-
Must Turn Off-State Current	1.0 mA	-
Must Turn Off-State Voltage	-	1.0 VDC
Typical Input Current @ 5 VDC	-	15 mAdc
Nominal Input Impedance	-	270 Ohm
Maximum Turn-On Time [msec]	1/2 Cycle	1/2 Cycle
Maximum 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

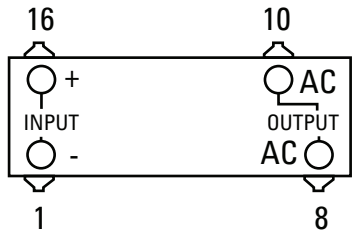
MECHANICAL SPECIFICATIONS

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

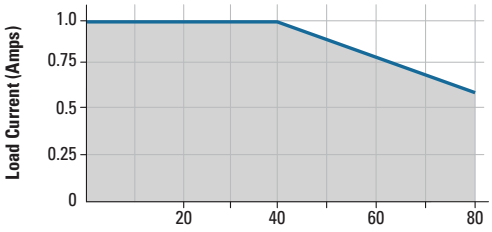
WIRING DIAGRAM



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



Max. Load Current vs. Temp.

AGENCY APPROVALS AND CERTIFICATIONS

UL E116950
CSA LR81689

RoHS

CE

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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