

ASPF Series



- Mini-SIP SSR
- Ratings to 3A @ 280 V AC
- SCR output
- DC control
- Zero-crossing (resistive loads) or random-fire (inductive loads) output

PRODUCT SELECTION

Control Voltage	Zero Crossing	Random Fire
4-10 VDC	ASPF240D3	ASPF240D3R

OUTPUT SPECIFICATIONS (1)

Description		
Operating Voltage (47-63Hz) [Vrms]	24-280	24-280
Transient Overvoltage [Vpk]	600	600
Maximum Off-State Leakage Current @ Rated Voltage [mA _{rms}]	0.1	0.1
Minimum Off-State dv/dt @ Maximum Rated Voltage [V/μsec] (3)	500	500
Maximum Load Current [Arms]	3.0	3.0
Minimum Load Current [Arms]	0.1	0.1
Maximum Surge Current (16.6ms) [A _{pk}]	40	40
Maximum On-State Voltage Drop @ Rated Current [V _{pk}]	1.5	1.5
Minimum Power Factor (with Maximum Load)	0.5	0.5

INPUT SPECIFICATIONS (1)

Description	
Control Voltage Range	4-10 VDC
Must Turn On Voltage	4.0 VDC
Must Turn Off Voltage	1.0 VDC
Typical Input Current @ 5 VDC	15 mA _{dc}
Nominal Input Impedance	300 Ohm
Maximum Turn-On Time [msec] (4)	1/2 Cycle
Maximum Turn-Off Time [msec]	1/2 Cycle

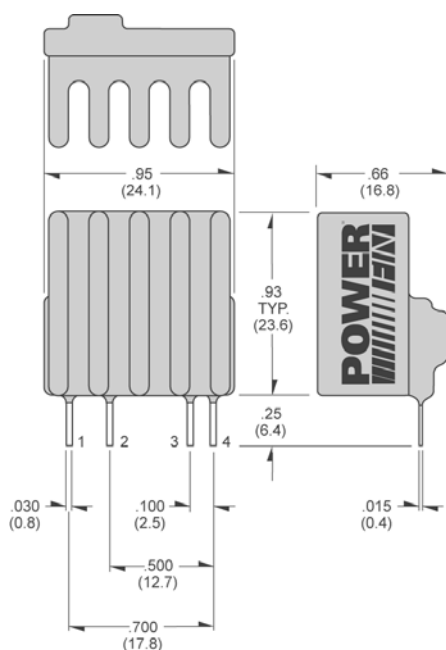
GENERAL SPECIFICATIONS

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	8 pF
Ambient Operating Temperature Range	-30 to 80°C
Ambient Storage Temperature Range	-30 to 125°C
Weight (typical)	0.35 oz. (10g)
Encapsulation	Thermally Conductive Epoxy

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.
- 4) Turn-On time for random turn-on versions is 0.01 msec (DC C

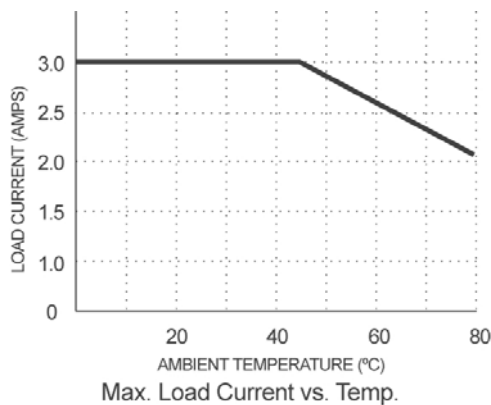
MECHANICAL SPECIFICATIONS



DC CONTROL.
 PIN 1: AC LOAD
 PIN 2: AC LOAD
 PIN 3: +DC CONTROL
 PIN 4: -DC CONTROL

All dimensions are in inches (millimeters)

THERMAL DERATE INFORMATION



AGENCY APPROVALS

UL E116950
 CSA LR81689



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