

- Ultra High Steady State Current Rating
- Low Leakage (Off-State)
- SCR Output
- AC or DC Control
- Crydom's Patented Design

Crydom's PowerFin™ series delivers the highest ratings of any single in-line package (SIP). The integral heat sink design can operate at 25 amps RMS in forced air at 85°C case temp. With natural convection in free air, it rates 10 amps RMS at 25°C ambient.

Built-in advantages include Surface Mount Technology and SCR output. Manufactured in Crydom's ISO 9001 Certified facility for optimum product performance and reliability.

MODEL NUMBERS	AC CONTROL	(120Vac) (24Vac)	PF240A25 PFE240A25		
	DC CONTROL	(5Vdc) (24Vdc)	PF240D25 PFE240D25	PF380D25 PFE380D25	PF480D25 PFE480D25
OUTPUT SPECIFICATIONS ①					
Operating Voltage (47-63 Hz) [Vrms]			12-280	48-530	48-660
Load Current Range [Arms]			Forced Air.06-25 ③ Convection Air .06-10		
Transient Overvoltage [Vpk]			600	1200	1200
Max. Surge Current, (16.6ms) [Apk]			250	250	250
Max. On-State Voltage Drop @ Rated Current [Vpk]			1.6	1.6	1.6
Maximum I ² t for Fusing, (8.3 msec.) [A ² sec]			260	260	260
Max. Off-State Leakage Current @ Rated Voltage [mArms]			0.1	0.1	0.1
Min. Off-State dv/dt @ Max. Rated Voltage [V/μsec] ②			500	500	500
Max. Turn-On Time ④			1/2 Cycle (DC Control), 10.0 msec (AC Control)		
Max. Turn-Off Time			1/2 Cycle (DC Control), 40.0 msec (AC Control)		
Power Factor (Min.) with Max. Load			0.5	0.5	0.5

MODEL NUMBERS	DC CONTROL			AC CONTROL		
	Nominal Voltage	5Vdc	5Vdc	24Vdc	120Vac	24Vac
	PF240D25	PF380D25 PF480D25	PFE240D25 PFE380D25 PFE480D25	PF240A25	PFE240A25	
Control Voltage Range	3-15 Vdc	4-15 Vdc	15-32 Vdc	90-140 Vrms	18-36 Vrms	
Max. Turn-On Voltage	3.0 Vdc	4.0 Vdc	15.0 Vdc	90.0 Vrms	18.0 Vrms	
Min. Turn-Off Voltage	1.0 Vdc	1.0 Vdc	1.0 Vdc	10.0 Vrms	2.0 Vrms	
Nominal Input Impedance	300 Ohm	240 Ohm	1500 Ohm	14.1k Ohm	4.2k Ohm	
Typical Input Current @ Nominal Voltage	15 mAdc	15 mAdc	15 mAdc	10 mArms	5 mArms	

GENERAL NOTES

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- ① All parameters at 25°C unless otherwise specified.
 ② Off-State dv/dt test method per EIA/NARM standard RS-443, paragraph 13.11.1
 ③ Heatsink temperature 85°C Maximum.
 ④ Turn-On Time for Random Turn-On versions 0.1msec (DC Control Models).

For recommended applications and more information contact:
USA: Sales Support (877) 502-5500 **Tech Support** (877) 702-7700 FAX (619) 710-8540
 Crydom Inc., 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 606030 • **FAX** +44 (0)1202 606035 Crydom SSR Ltd., Arena Business Centre,
 Holyrood Close, Poole, Dorset BH17 7FJ, Email: intsales@crydom.com.
GERMANY: +49 (0)180 3000 506



GENERAL SPECIFICATIONS

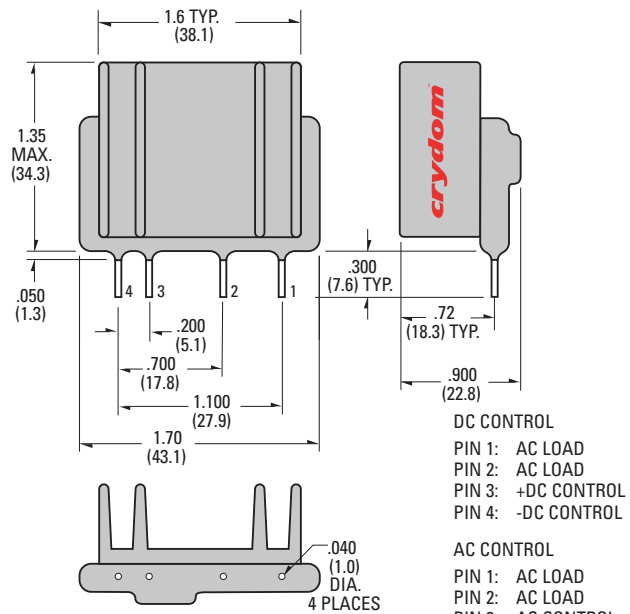
Dielectric Strength 50/60Hz Input/Output	4000 Vrms
Insulation Resistance (Min.) @ 500 Vdc	10 ⁹ Ohm
Max. Capacitance Input/Output	8 pF
Ambient Operating Temperature Range	-30 to 80°C
Ambient Storage Temperature Range	-30 to 125°C

MECHANICAL SPECIFICATIONS

Weight: (typical)	.85 oz. (25g)
Encapsulation:	Thermally Conductive Epoxy

AVAILABLE OPTIONS

- R** Random Turn-On (AC & DC Control, 240V Only)
 Phase Controllable (DC Control, 240V Only)
 Example: **PF240A25R, PFE240D25R**



All dimensions are in inches (millimeters)

CURRENT DERATING CURVES

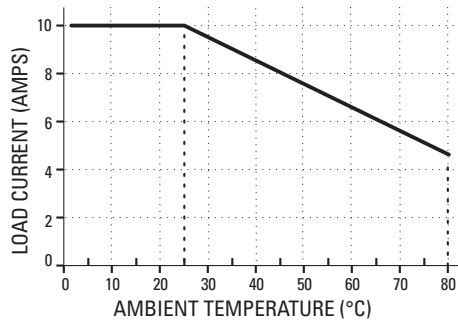


Fig.1 Convection Cooling

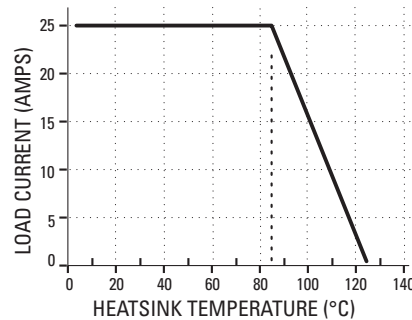


Fig.2 Forced Air Cooling

APPROVALS

UL E116950
 VDE 70938 (DC Control Only)



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ANNEX – ENVIRONMENTAL INFORMATION:

The environmental information disclosed in this annex including the EIP Pollution logo are in compliance with People's Republic of China Electronic Industry Standard SJ/T11364 – 2006, Marking for Control of Pollution Caused by Electronic Information Products.

Part Name	Toxic or hazardous Substance and Elements					
	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Hexavalent Chromium (Cr (VI))	Polybrominated biphenyls (PBB)	Polybrominated diphenyl ethers (PBDE)
Semiconductor die	X	O	O	O	O	O
Solder	X	O	O	O	O	O

附件 - 环保信息:

此附件所标示的包括电子信息产品污染图标的环保信息符合中华人民共和国电子行业标准 **SJ/T11364 - 2006**, 电子信息产品污染控制标识要求

部件名称	有毒有害物质或元素					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr (VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
半导体芯片	X	O	O	O	O	O
焊接点	X	O	O	O	O	O

