

- **Zero Voltage and Random Turn-On Switching**
- **Extra High Steady-State Current**
- **Panel Mount**
- **Internal Snubber**

Featuring state-of-the-art Surface Mount Technology, this SPST-NO relay delivers proven reliability in the most demanding applications. Output consists of an SCR AC switch and is available in zero-cross and random turn-on (phase controllable) versions.

Manufactured in Crydom's ISO 9001 Certified facility for optimum product performance and reliability.

MODEL NUMBERS	DC CONTROL AC CONTROL	PRGD24150 PRGA24150	PRGD48150 PRGA48150
OUTPUT SPECIFICATIONS ①			
Operating Voltage (47-63 Hz) [Vrms]		24-280	48-530
Load Current Range ③ [Arms]		.15-150	.15-150
Transient Overvoltage [Vpk]		600	1200
Max. Surge Current, (16.6ms) [Apk]		1750	1750
Max. On-State Voltage Drop @ Rated Current [Vpk]		1.7	1.7
Thermal Resistance Junction to Case (R _{θJC}) [°C/W]		0.15	0.15
Maximum I ² t for Fusing, (8.3 msec.) [A ² sec]		12,700	12,700
Max. Off-State Leakage Current @ Rated Voltage [mArms]		5	5
Min. Off-State dv/dt @ Max. Rated Voltage [V/μsec] ②		500	500
Max. Turn-On Time ④		1/2 cycle (DC Control), 10 msec (AC Control)	
Max. Turn-Off Time		1/2 cycle (DC Control), 40 msec (AC Control)	
Power Factor (Min.) with Max. Load		0.5	0.5

INPUT SPECIFICATIONS	DC (240V Models)	DC (480V Models)	AC
Control Voltage Range	3-15 Vdc	4-15 Vdc	90-140 Vac
Max. Turn-On Voltage	3.0 Vdc	4.0 Vdc	90 Vac
Min. Turn-Off Voltage	1.0 Vdc	1.0 Vdc	10 Vac
Nominal Input Impedance	300 Ohms	300 Ohms	14.1K Ohms
Typical Input Current	15 mA @ 5 Vdc	15 mA @ 5 Vdc	10 mA @ 120 Vac

GENERAL NOTES

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- ① All parameters at 25°C and per section unless otherwise specified.
- ② Off-State dv/dt test method per EIA/NARM standard RS-443, paragraph 13.11.1
- ③ Heat sinking required, see derating curves on page 2.
- ④ Turn-On time for Random versions is 0.02 msec. (DC Control Models).



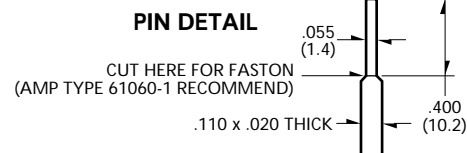
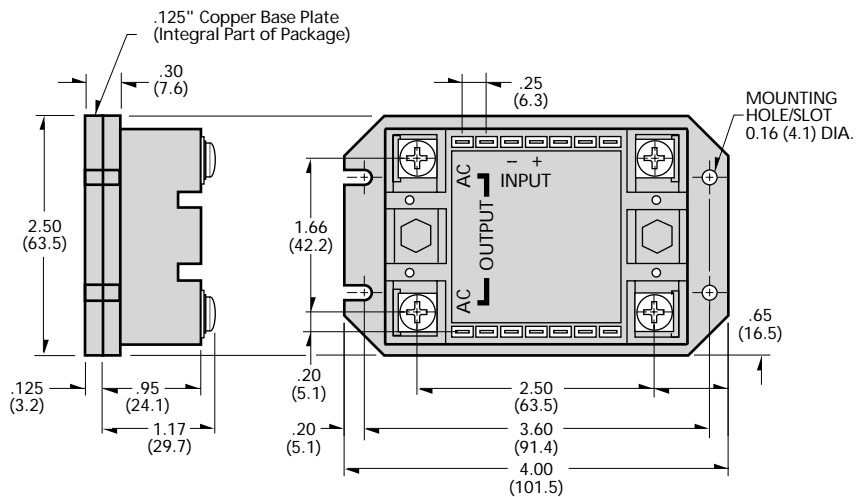
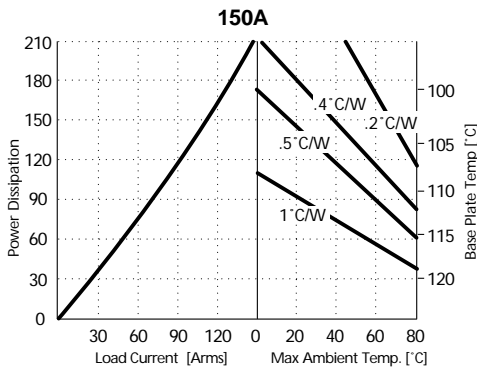
GENERAL SPECIFICATIONS

Dielectric Strength (min.)	4000 Vac
Insulation Resistance (Min.) @ 500 Vdc	10 ¹⁰ Ohm
Max. Capacitance Input/Output	10 pF
Ambient Operating Temperature Range	-30 to 80°C
Ambient Storage Temperature Range	-40 to 125°C

MECHANICAL SPECIFICATIONS

Weight: (typical)	12 oz. (340g)
Encapsulation:	Thermally Conductive Epoxy
Power Terminals:	M5 Screws Furnished, Mounted
Control Terminals:	.050 x .020 Square Pins

CURRENT DERATING CURVES



All dimensions are in inches (millimeters)

Crydom Heat Sinks offer excellent thermal management and are perfectly matched to the load current ratings of Crydom panel mount relays. Request Crydom's Heat Sink specification sheet for all the details.

AVAILABLE OPTIONS

- 10 Random Turn-On (AC & DC Control)
Phase Controllable (DC Control)
Example: **PRGA24 150-10**

APPROVALS
PENDING



For recommended applications and more information contact:

USA: Sales Support (877) 502-5500 **Tech Support** (877) 702-7700 **FAX** (619) 710-8540

Crydom Corp, 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 365070 • **FAX** +44 (0)1202 365090 Crydom International Ltd., 7 Cobham

Road, Ferndown Industrial Estate, Ferndown, Dorset BH21 7PE, **Email:** intsales@crydom.com.

GERMANY: +49 (0)180 3000 506

