

INTERNATIONAL RECTIFIER



CRYDOM

[查询"B3020R5A"供应商](#)

SERIES B30

PC Board Mount Solid State Relay

0.5 Amp, 200VDC DC Output

CRYDOM B30

The Crydom B30 series is a low cost, high voltage solid state relay that combines reliability and small size in a package designed for solder connection into printed circuit boards. The low 0.7-inch profile allows minimum spacing of rack mounted boards. With a total volume of less than 0.8 cubic inches, the Model B3020R5A achieves a 0.5 ampere rating at 50°C at up to 200Vdc.

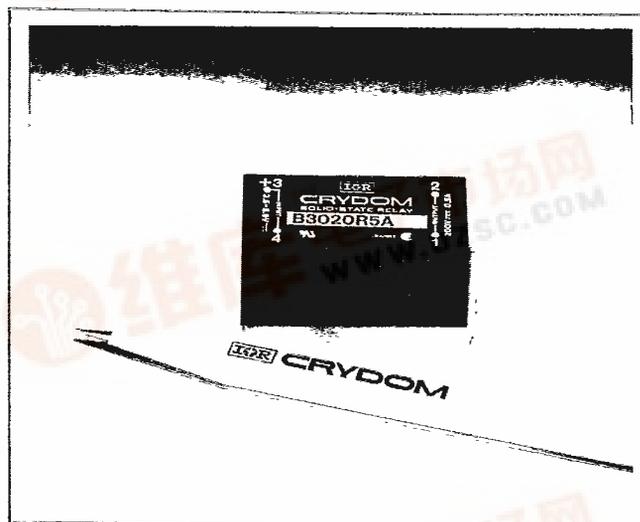
The B30 features internal suppression (see Note 1) fast response, photo isolation, input and output reverse voltage protection, and direct control by digital logic circuits. Applications include replacement of discrete components and solid state switches for control of solenoids, valves, motors and lamps.

Electrical Specifications (-30°C ≤ TA ≤ 80°C)

Input Characteristics		Units	
Control Voltage Range	3-12	Vdc	
Max. Reverse Voltage	8.0	Vdc	
Max. Turn-On Voltage	3.0	Vdc	
Min. Turn-Off Voltage	1.0	Vdc	
Min. Input Impedance	1000	Ohms	
Max. Input Current	5VDC	5.0	mA
	12VDC	12	

AC Output Characteristics

Operating Voltage Range (Continuous)	10-200	Vdc
Max. Load Current (See Derating Curve, Figure 1)	0.5	A
Min. Load Current	25	mA
Max. Surge Current (Non-repetitive) 50 ms (See Surge Curve, Figure 2)	3.0	A
Max. On-State Voltage Drop at Rated Current	1.5	Vdc
Max. Off-State Leakage Current at Rated Voltage	5.0	mA
Turn-On Time	0.5	msec
Turn-Off Time	1.0	msec



General Characteristics

General Characteristics		Units	
Dielectric Strength 50/60Hz Input/Output	1500	VRMS	
Insulation Resistance @ 500Vdc Input/Output	10 ¹⁰	Ohms	
Max. Capacitance Input/Output	10	pF	
Ambient Temperature Range	Operating	-30 to 85	°C
	Storage	-30 to 125	

0801 A-12

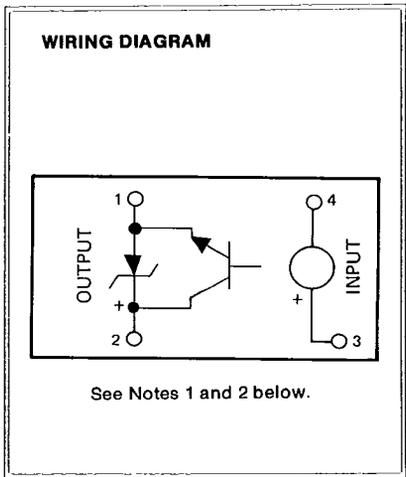
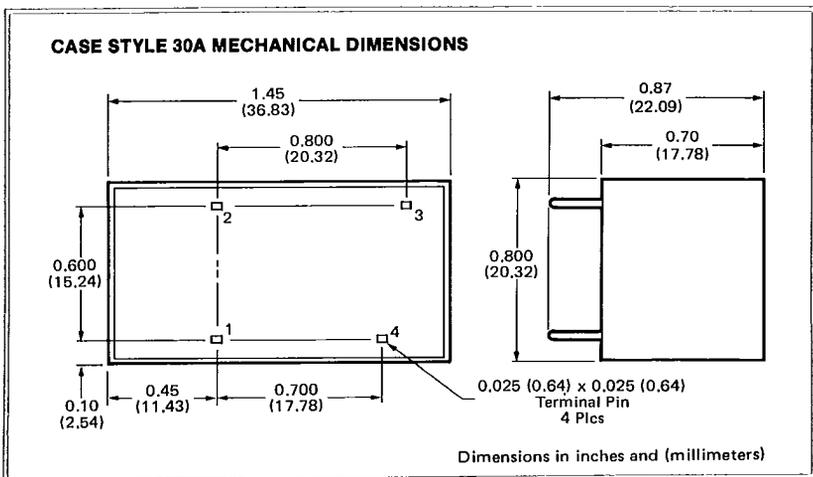
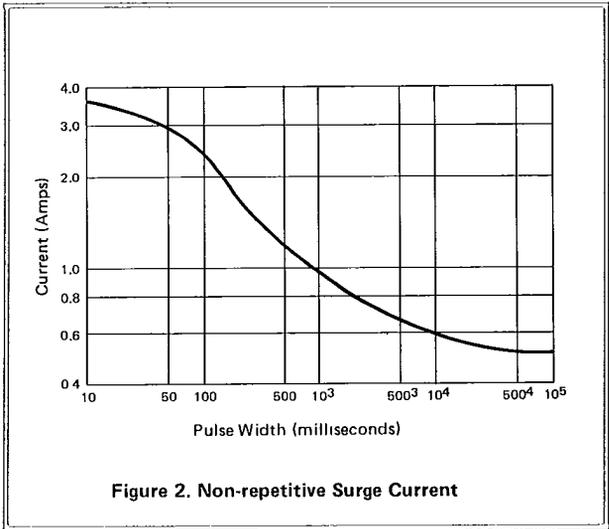
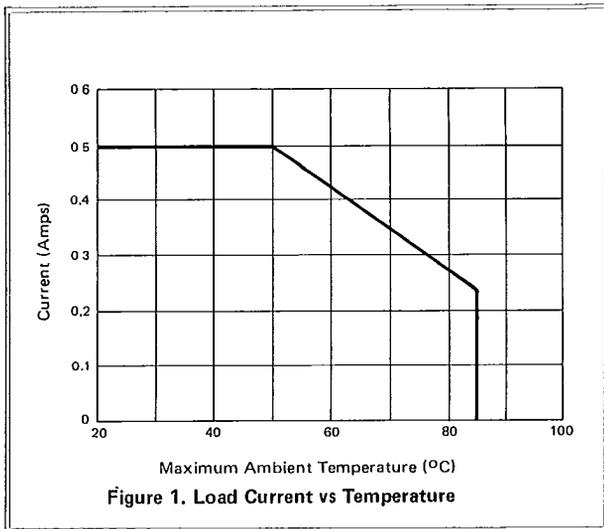
找PDF

pdf.dzsc.com

CRYDOM B30 SOLID STATE RELAY

[查询"B3020R5A"供应商](#)

PERFORMANCE CHARACTERISTICS CURVES



- NOTES:**
1. Inductive load can contribute substantial heating to the relay if not diode suppressed. Internal zener can withstand 2A peak pulse current @ 300V, capacitive discharge delay to 50% in 1 msec. Peak power 1 kW.
 2. Relay output is totally isolated. The load may be placed in either the positive or negative legs.

INTERNATIONAL RECTIFIER CRYDOM DIVISION

WORLD HEADQUARTERS: IR Crydom, 1521 E. Grand Avenue, El Segundo, California 90245, Telephone: (213) 322-4987, TWX: 910-348-6283

EUROPEAN HEADQUARTERS
IR Great Britain
 Hurst Green, Oxted
 Surrey RH8 9BB, England
 Telephone: Oxted (08833) 3215
 Telex: 95219

INTERNATIONAL SALES OFFICES
IR Canada
 101 Bentley Street
 Markham, Ontario L3R 3L1
 Telephone: (416) 475-1897
 Telex: 06966650

IR Germany
 Savignystrasse 55
 D-6000 Frankfurt/Main 1
 Telephone: 0611-74-50-74
 Telex: 04-13123

IR Italy
 Via Liguria 49
 10071 Borgaro, Torino
 Telephone: (011) 470-14-84
 Telex: 221257

Sales Offices, Agents and Distributors in Major Cities throughout the World.