Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832
Email & Skype: info@chipsmall.com Web: www.chipsmall.com
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

DC Output Buffered Modul es

- **Compatible with 5 & 15 Volt Logic Systems**
- **Buffered Inverting and Non-Inverting Modules**

Buffered output modules contain additional internal amplification to reduce drive requirements to a level suitable for the MOS devices used in many microprocessor systems. To further reduce the need for additional interface components, they are available with both inverting and non-inverting inputs, for 5 volt or 15 volt logic.

CRYDOM

Control over power

INPUT SPECIFICATIONS (All voltages referenced to pin 5)	**6311**	**6321**	**6341**	**6351**
Nominal Input Voltage [Vdc]	5	5	15	15
Output Module Type	Non-Inverting	Inverting	Non-Inverting	Inverting
Must Turn On Voltage Range @pin 4 [Vdc]	0.0 - 0.8	2.4 - 6.0	0.0 - 2.0	8.0 - 18
Must Turn Off Voltage Range @pin 4 [Vdc]	2.4 - 6.0	0.0 - 0.8	8.0 - 18	0.0 - 2.0
Max. Input On-Current (Sink) @pin 4 [µA]	75 @0.8V	Ñ	175 @2.0V	Ñ
	100 @0.0V	Ñ	250 @0.0V	Ñ
Max. Input On-Current (Source) @pin 4 [µA]	Ñ	75 @2.4V	Ñ	75 @8.0V
	Ñ	250 @6.0V	Ñ	200 @18V
Max. Input Current For Output (Sink)	10	10	10	10
Off-State @pin 4 [µA] ② (Source)	10	10	10	10
Logic Supply Voltage Range [Vdc]	3.5 - 6.0	3.5 - 6.0	10 -18	10 -18
Max. Logic Supply Current (w/o LED) @5Vdc [mA] ①	20	20	25	25
Max. Logic Supply Current (w/ LED) @5Vdc [mA] ①	15	15	22	22

OUTPUT SPECIFICATIONS				
Load Current Range @45ûC [A]	0.02 - 3.5	0.02 - 3.5	0.02 - 3.5	0.02 - 3.5
Load Voltage Range [Vdc]	3.0 - 60	3.0 - 60	3.0 - 60	3.0 - 60
Max. Surge Current [A]	5.0	5.0	5.0	5.0
Max. On-State Voltage [Vdc]	1.5	1.5	1.5	1.5
Max. Off-State Leakage [mA]	1.0	1.0	1.0	1.0
Max. Turn On Time [µS]	100	100	100	100
Max. Turn Off Time [µS]	100	100	100	100
Transient Overvoltage [Vdc]	60	60	60	60

© 2002 CRYDOM CORP Specifications subject to change without notice.

GENERAL NOTES

① LED optional. Placed in series with pin 3 for status indication.

② Max. allowable leakage current from driver maintain output off-state.

③ Inductive loads must be diode suppressed.

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

ISO 9001 CERTIFIED

DC Output Buffered Modules

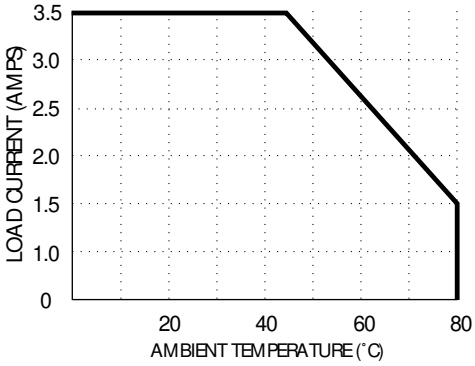
CRYDOM

Control over power

GENERAL SPECIFICATIONS

Min. Dielectric Input/Output (1 minute)	4,000 VRMS
Min. Isolation Resistance Input/Output (@500V)	10^{10} Ohms
Capacitance input to output	8 pF
Temperature Range Ñ Operating	-40ûC to 80˚C
Temperature Range Ñ Storage	-40ûC to 125˚C

CURRENT DERATING CURVE



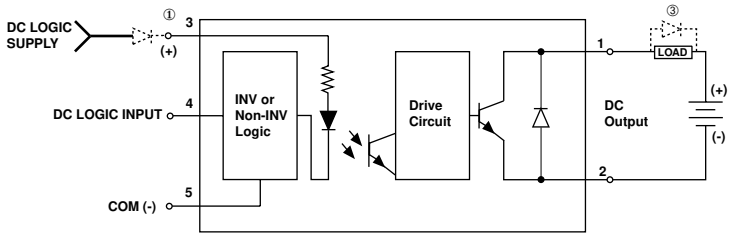
Max. Load Current vs. Temp.

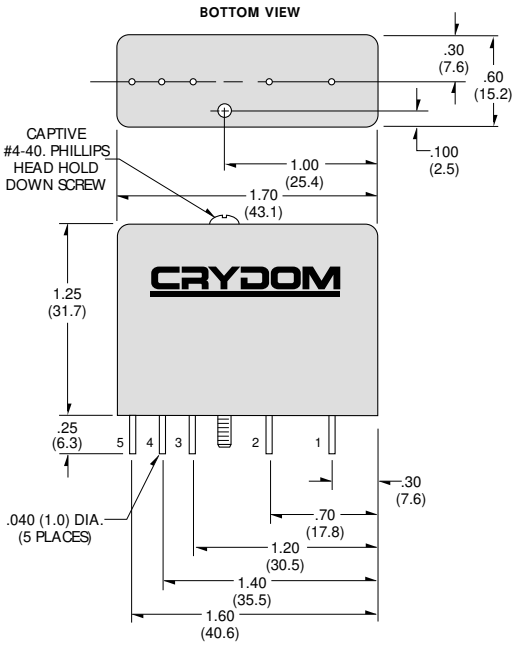
BUFFERED OUTPUT MODULES

A buffered non-inverting module turns on when pin 4 is held in the low state (logic 0), the same as standard modules driven in the sink mode. A buffered inverting module conversely turns on when pin 4 is held high (logic 1). In the absence of an input signal and/or logic supply (open Circuit), all models will be in the off-state.

Buffered modules may be used with standard 5 pin PB or MS mounting boards. However, the 3.3K pull-up resistor will add to the logic drive current of a non-inverting module and may be removed. For an inverting module, the resistor must be removed to avoid a false ÒonÓ command, unless a Ònormally closedÓ condition is desirable for use with a ground seeking (logic 0) signal source.

WIRING & MECHANICAL DIAGRAMS





All dimensions are in inches (millimeters)

© 2002 CRYDOM CORP Specifications subject to change without notice.

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

ISO 9001 CERTIFIED