DC Output Buffered Modules

- 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.

| (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 (Snk) @pin 4 [μA] | 75 @0.8V | _ | 175@2.0V | _ |
| | 100 @0.0V | — | 250 @0.0V | _ |
| Max. Input On-Current (Source) @pin 4 [µA] | _ | 75 @2.4V | | 75 @8.0V |
| | _ | 250 @6.0V | _ | 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] | D 20 | 20 | 25 | 25 |
| Max. Logic Supply Current (w/LED) @5Vdc[mA] ① | 15 | 15 | 22 | 22 |

OUTPUT SPECIFICATIONS

Control over power

| Load Current Range @45° C [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 |

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: (800) 8 CRYDOM • (800) 827-9366 • (619) 715-7200 • fax (619) 715-7280 Crydom Corp, 9525 Chesapeake Drive, San Diego, CA 92123 • e-mail: sales@crydom.com WEB SITE: http://www.crydom.com FASTFAX Product Information: (888) 267-9191 UK: (44)1202 812300 • fax (44)1202 812340 Crydom International Ltd., 85, Condor Close, Woolsbridge Industrial Estate, Three-Legged Cross. Wimborne, Dorset, England BH21 6SJ GEFMANY: (49) (0)6874 182580 • fax (49)(0)6874 182585 Crydom GmbH, Gewerbegebiet Im Schachen, D-66687 Nunkirchen, Germany • e-mail: vertrieb@crydom.com



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DC Output Buffered Modules

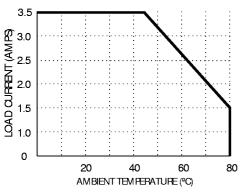
GENERAL SPECIFICATIONS

| Min. Dielectric Input/Output (1 minute) | 4,000 VRMS | |
|--|-----------------------|--|
| Min. Isolation Resistance Input/Output (@500V) | 10 ¹⁰ Ohms | |
| Capacitanœ input to output | 8 pF | |
| Temperature Range — Operating | -40° C to 80° C | |
| Temperature Range — Storage | -40° C to 125° C | |



Control over power

CURRENT DERATING CURVE



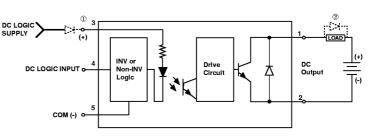
Max. Load Current vs. Temp.

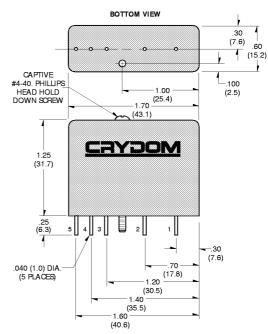
BUFFERED OUTPUT MODULES

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 <u>must</u> be removed to avoid a false "on" command, unless a "normally closed" condition is desirable for use with a ground seeking (logic 0) signal source.

WIRING & MECHANICAL DIAGRAMS





All dimensions are in inches (millimeters)

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