WL-LDC10D

High Speed Laser Diode / SOA / BOA Controller

Features

- Analog bandwidth **DC** to **15MHz**
- Up to **1A** output drive current
- Adjustable output current limit **200mA** to **1A**
- Laser diode reverse current protection
- Current monitor output
- TTL modulation (2 arbitrary currents)
- Integrated **TEC Controller** (1.5A max.)
- Adjustable TEC regulator parameters
- Adjustable TEC current limit
- USB interface (virtual COM port)
- Affordable pricing

Applications

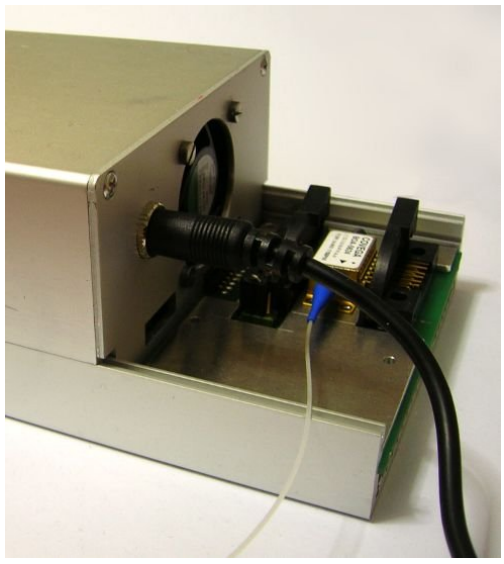
- FDML laser: sweep amplitude shaping
- SOA/BOA/LED modulation and switching

General Description

The WL-LDC10D is a high speed laser diode driver especially designed to drive SOAs and BOAs in the in the near infrared range. It features an analog input which sets the laser current anywhere between 0 and 1A at frequencies from DC to 15MHz. This combination of high output drive and high slew rate (50A/µs) makes the WL-LDC10D well suited for switching as well as analog modulation applications. A digital TTL input allows digital switching between two arbitrary current settings.

The WL-LDC10D features an adjustable current limit, reverse current protection and an integrated thermal overload protection. It provides an internal digital control loop as TEC controller with adjustable temperature and current limit. All parameters can be adjusted at the frontpanel and via the built-in USB interface.

Typical Application



The laser diode is mounted directly at the back of the WL-LDC10D. Different slot-in mounts for different pinouts are available.

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