WAVELENGTH ELECTRONICS

Simply Advanced Control
Laser Diode Drivers & Temperature Controllers

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Upgraded Laser Diode Driver – Now up to 3 A

Fast Control System Prototyping with the Improved WLD3393 Evaluation Board

The highly popular WLD3343 General Purpose Laser Diode Driver has been upgraded for higher output current, lower noise, and no leakage current. It provides up to 3 A output in a compact 14-pin DIP package. The WLD3343 Series is ideal for a wide variety of electro-optical instrumentation, including spectrometers, medical diagnostic equipment, range finders, and on research benches. The upgraded WLD3393 Evaluation Board allows fast system design.

The upgraded WLD3343 is available in five models:

- The standard 2.2 A (WLD3343)
- A 2.2 A lithium-ion battery-compatible (WLD3343HB)
- A 2.2 A lower noise version (WLD3343-2L)
- The 3 A enhancement (WLD3343-3A)
- A lower noise 3 A version (WLD3343-3L)

The WLD3343 is an analog circuit for space-constrained designs that supplies up to 2 MHz modulation bandwidth, current limiting, and Constant Current or Constant Power operation with any laser diode configuration. To protect your laser diode and ensure reliable performance, safety features including slow start, voltage-controlled setpoint, TTL-compatible shutdown, and over-temperature shut-off have been incorporated into the design. Since the maximum current output is scaleable, the WLD3343 can safely be used with low current VCSELs.

The WLD3393 Evaluation Board operates from a single supply and is compatible with all standard laser diode configurations. Onboard switches, connectors and trimpots make fine-tuning of the laser diode forward current and limit easy and accelerate product design. Online design tools, including a Circuit Design Calculator and Safe Operating Area Calculator, are available at www.teamwavelength.com/support/tools.asp.

Wavelength Electronics has simplified advanced laser diode drive and thermal control technology for OEM and research applications since 1993. Our high performance specifications are supported by a team of experienced sales and design engineers and a top-notch manufacturing facility. Evaluation quantities are typically available from stock.

To learn more about the WLD3343 Laser Diode Drivers, WLD3393 Evaluation Board Upgrade and Wavelength's complete line of high precision, low-noise, ultra-stable laser diode drivers and temperature controllers, call 406-587-4910, email sales@teamwavelength.com or visit our website, www.teamwavelength.com.