

LDP-V 03-100 XS V3

Driver Module for Pulsed Lasers

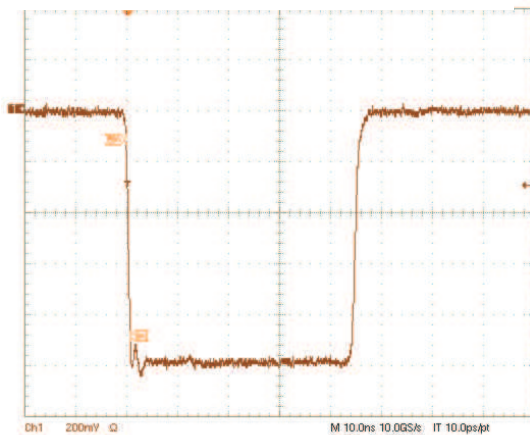
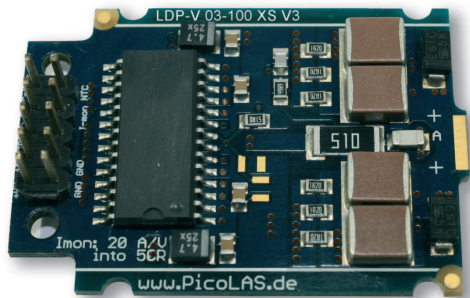


Figure: Current monitor output, scale: -0.4 A/Div

- Compact OEM-module
- 0.3 to 3A diode current
- < 1.2 ns rise time
- Pulse width control via trigger input (8 ns to 10 μ s)
- Rep. rates from single shot to 2 MHz
- Single +15 V supply
- Current monitor and isolated monitor
- Applications: LIDAR, Measurements, Ignition, Rangefinding, Biochemistry, ...

Technical Data:*

Output current	Approx. 0.3 .. 3 A (max 3.5 A)
Max. output voltage	100 V
Rise time	typ. 800ps, max. 1.2 ns
Trigger delay	typ. 36 ns, max. 40 ns
Min. pulse duration	8 ns **
Max. pulse duration	10 μ s**
Trigger range	single-shot to 2 MHz** (refer to diagram with operating limits)
Trigger input (optional)	5 V into 50 Ω via pinheader
Trigger output	galvanically sep. Rogowski-coil
Current monitor	2.0 A / V into 50 Ω
Supply voltage	+12 .. 15 V 60 mA and + 5-100 V 15 W
Max. power dissipation	12 W
Dimensions	30.5 x 44 x 13 mm
Weight	10 g
Operating temperature	-20 to + 55 $^{\circ}$ C

*Measured into a short instead of laser diode. Technical data is subject to change without further notice.

** See manual for detailed information.

Product Description:

The LDP-V-Series provides a small and inexpensive source for nanosecond pulses. The device is optimized for pulse-repetition from single-shot up to MHz-repetition with duty-cycles up to 100% **.

Its typical application is driving pulsed laser diodes. Those can be mounted directly onto the LDP-V, eliminating the need for strip lines. The diode must be electrically isolated from earth (chassis) ground. Compatible packages: TO-18, TO-5, TO-52, 5.6 mm, 9 mm and similar. Despite its small size, the LDP-V is designed for ease of use.

