High-speed circuit for laser diodes

New generations of laser driver circuits based on iC-HG are able to generate high-power laser pulses down to 3.5 ns as shown. To actually achieve this in the respective application, an optimized PCB ...

ROHM offers laser diodes (LDs) for Light Detection and Ranging (LiDAR). This application note will introduce ROHM"s LD line-up and show how to design the drive circuits of ROHM LDs.

The two laser diodes in consideration are both 905-nm, 75-W rated, but it is possible to notice a large performance difference. Be sure to test devices that have similar specifications before selecting one ...

While this article will focus on laser diode drivers for lidar applications, the design methods are suitable for any application where high current nanosecond pulses are needed.

Here we propose a high-repetition-frequency high-power pulse power supply for laser diode driving by using frequency synthesis technique. This technique generates a high repetition ...

I am looking to design a circuit to pulse a 532 nm laser diode at approximately constant optical power output (current of ~200 mA), with pulse widths of ~1-10 us with a rise/fall time on the ...

GENERAL DESCRIPTION The ADP5202 is a single channel, laser diode driver with an integrated, N channel, metal-oxide semiconductor field effect transistor (MOSFET). The driver is able to sink ...

This circuit demonstrates the successful application of switching power converter technology to the practical problem of high speed modulation of high power semiconductor laser diodes.

In this paper, we present the design and implementation of an ultra-compact laser diode driver that is intended for use in positioning laser units for industrial machinery and in...

This paper attempts to describe a laser diode driver circuit using the depletion mode gallium nitride high electron mobility transistor (D-mode GaN HEMT) to generate nanosecond pulses ...

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