Fast Transistor Laser Diode

Our high temperature stable laser diode is designed for pumping fiber lasers for automotive LiDAR applications. Its unique design enables > 50% electro-optical efficiency at 105 °C operation.

I am trying to create a laser driver circuit that can allow me to drive a laser with relatively low operating current and voltage with fast switching times and can be controlled via a pulse blaster ...

The aim of the study is to design a high speed laser diode driver and develop specifications for the laser diode driver based on NKT photonics requirements.

A design guide is summarized from the derivations and analysis of the proposed laser diode driver. According to the design guide, we selected the capacitor, resistor, and diode ...

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 ...

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 ...

Using a wire, they integrated a transistor with a laser diode to fashion a device that could produce both electrical signals and laser beams, though not both simultaneously.

The present invention relates to pulsed laser drivers and particularly to driver circuitry comprising Gallium Nitride (GaN) power transistors for driving diode laser systems requiring high...

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 ...

A complete overview of integrated laser drivers from iC-Haus can be found here. The latest generation of all-purpose integrated laser driver solutions supports switching frequencies up to 155 MHz and ...

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