

Low-power laser diode circuit



Overview

This circuit operates from a single +3.3V supply and it can drive from 0A to 2A into a laser diode with a 0V to 2V input from a Digital-to-Analog (D/A) converter. This is a bridge-tied load (BTL) linear amplifier for driving a thermoelectric cooler (TEC). 3V supply in order to increase. Driving laser diodes with discrete or integrated circuits?

In low power laser diode modules the designer has the option to use the classical discrete solution or take advantage of fully integrated driver ICs. Often the component cost is the driving factor for the selection without considering the. If you buy a single laser diode as a standalone component, you need to set up a driver circuit that controls the current through the laser diode. The example when 30mA is injected to LD on graph1 is as follows.

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