

High Current, Pulsed, Laser Diode Driver

Data Sheet ADP5202

FEATURES

Integrated gate driver and N channel MOSFET
Architecture enables fast optical rise and fall times: <1 ns
Driver supply voltage range: 4.5 V to 5.5 V
Anode supply voltage range: 5 V to 8 V
Package: 2.040 mm × 1.615 mm, 12-ball WLCSP
Rated from -40°C to +85°C ambient temperature

APPLICATIONS

Time of flight cameras

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 current at 20 A/ns, resulting in a subnanosecond, optical rising edge when used together with most laser diodes targeting time of flight applications. The fast rising edge makes the laser diode possible to deliver high optical power within several nanoseconds.

FUNCTIONAL BLOCK DIAGRAM

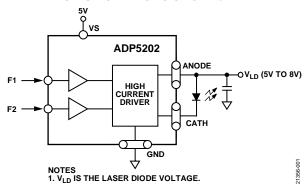


Figure 1.

For more information about the ADP5202, contact Analog Devices, Inc., at afe.ccd@analog.com.

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