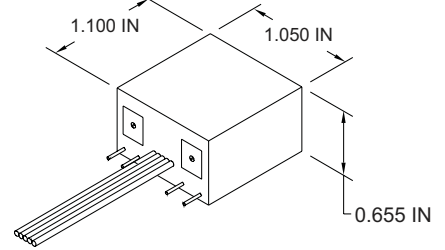


OEM LASER DIODE DRIVERS

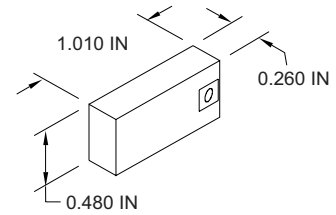
- ▶ LDP201 is designed to drive laser diodes up to 150mA
- ▶ LDP214 drives lasers up to 120mA that incorporate a back-facet monitor diode



LDP201



LDP214



LDP201, LDP214, & TMD219

DVM-



Compatible Monitoring

The LDP201, 252, and 305 contain DVM-compatible test points. Users can monitor drive current using the LDP305 and either drive current or photodiode feedback current using the LDP201 and LDP252.

Laser Diode Drivers—

Users have a variety of choices when selecting a laser diode driver.

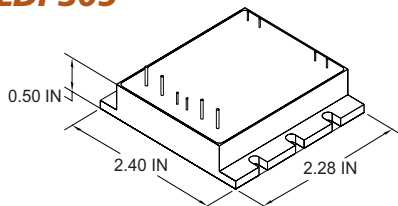
- ▶ **LDP201:** This power supply—designed to drive laser diodes up to 150mA—may operate in either automatic power control or constant current mode. Built-in 3/4 turn potentiometers enable users to adjust the laser power or drive current, depending on the mode of operation. DVM-compatible test points allow users to monitor the laser drive current or photodiode feedback current during operation.
- ▶ **LDP214:** The LDP214 is designed to drive laser diodes up to 120mA that incorporate a back-facet monitor diode. The unit operates in either constant current or automatic power control mode. A built-in 3/4 turn potentiometer enables users to adjust the laser power from 0 to the maximum system setting.



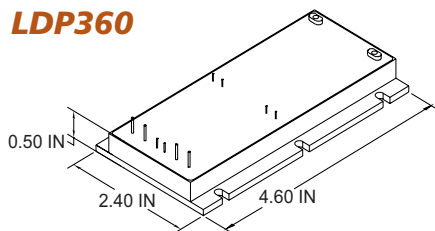
SPECIFICATIONS	LDP201	LDP214	LDP305
Dimensions, W x L x H, in. [mm]	1.05 x 1.10 x .66 [26.67 x 27.94 x 16.64]	.48 x 1.01 x .26 [12.19 x 25.65 x 6.60]	2.40 x 2.28 x .50 / [60.96 x 57.91 x 12.70]
Operating Voltage (VDC)	3.3 - 9.0	3.3 - 9.0	4.5 - 30.0 + 5V control
Max. Operating Current (mA)	150	120	10000
Max. Current to Diode (mA)	150	120	10000
Min. CW Drive Current (mA)	–	–	1000
Std. Photodiode Feedback (µA)	750	750	–
Max. Photodiode Feedback (mA)	up to 3.5	up to 3.5	–
Operating Mode	APC or CC	APC or CC	CC
Output	CW	CW	CW
Modulation Trigger Signal	–	–	Analog
Diode Compatibility	M- & N-type & 4-pin in APC, all in CC	M- & N-type in APC, all in CC	all in CC

OEM LASER DIODE DRIVERS

LDP305



LDP360



- ▶ LDP305 is capable of both analog & digital modulation
- ▶ LDP360 is designed to drive extremely high-power laser diodes

- ▶ **LDP305:** The LDP305 is a 10A current source designed for high-power laser diodes. The unit can drive single or multi-facet laser diodes up to a compliance voltage of +30V. Two configurations are available: a single power source configuration and one that requires two DC power sources. The single power source configuration allows a maximum voltage of 30V and a minimum of 7V. A relatively high level of heat is generated using this set-up. The dual power source configuration allows a maximum voltage of 30V for laser current and a minimum voltage equal to .5V + the laser diode's forward voltage drop. This configuration requires a second source to supply 5V for control circuitry use. This set-up results in minimal heat generation.

Analog modulation is standard and capable of CW to 12kHz. This feature allows for full control of the unit's output from 0 to full power with a DC voltage from 0 to 1.0V. The LDP305 is also capable of digital modulation up to 350Hz. DVM-compatible test points allow users to monitor drive current during operation.

- ▶ **LDP360:** The LDP360 is a 40A current source designed to drive our most powerful laser diodes. The unit operates in constant current mode, and analog modulation is standard. DVM-compatible test points allow users to monitor the laser drive current during operation.

SPECIFICATIONS	LDP360 NEW	LDP234 NEW	TMD219-100/200	LDP252
Dimensions, W x L x H, in. / mm	2.40 x 4.60 x .50 / 60.96 x 116.84 x 12.70	.48 x 1.01 x .37 / 12.19 x 25.65 x 9.40	.88 x 1.33 x .48 / 22.35 x 33.78 x 12.07	1.49 x 4.00 x .96 / 37.72 x 101.60 x 25.02
Operating Voltage (VDC)	4.5 - 30.0 + 5V control	3.3 - 9.0	5 ± .5	3.3 - 9.0
Max. Operating Current (mA)	40000	120	140 / 280	2550
Max. Current to Diode (mA)	40000	120	100 / 200	2500
Min. CW Drive Current (mA)	4000	–	20 / 40	–
Std. Photodiode Feedback (µA)	–	–	–	750
Max. Photodiode Feedback (mA)	–	–	–	up to 3.5
Operating Mode	CC	APC or CC	CC	APC or CC
Output	CW	CW	Modulated	CW
Modulation Trigger Signal	Analog	–	External TTL	–
Diode Compatibility	all in CC	P-type	all in CC	M- & N-type & 4-pin in APC, all in CC

OEM LASER DIODE DRIVERS

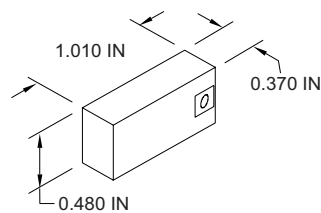
- ▶ **LDP234 is designed to drive P-type laser diodes up to 120mA**
- ▶ **TMD219-100 can drive laser diodes up to 100mA, while the TMD219-200 can drive them up to 200mA**
- ▶ **LDP252 is designed to drive high-power laser diodes up to 2500mA**

▶ **LDP234:** Designed to drive P-type laser diodes up to 120mA, the LDP234 power supply operates in either constant current or automatic power control mode. A built-in 3/4 turn potentiometer enables users to adjust the laser power from 0 to the maximum system setting.

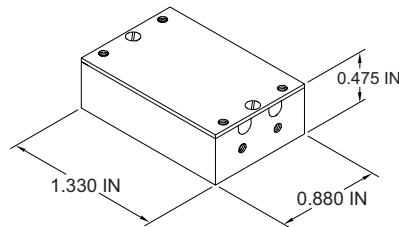
▶ **TMD219-100 and TMD219-200:** Our TMD drivers operate from CW to 20MHz. The TMD219-100 can drive laser diodes up to 100mA, while the TMD219-200 can drive them up to 200mA. Each power supply operates in constant current mode and can be modulated from an external user-supplied TTL trigger. Optional potentiometer controls are available to provide adjustable drive current.

▶ **LDP252:** Designed for high-power laser diodes up to 2500mA, the LDP252 power supply may operate in either automatic power control or constant current mode. Built-in 3/4 turn potentiometers enable users to adjust the laser power (or drive current). DVM-compatible test points allow users to monitor the laser drive current or the photodiode feedback current during operation.

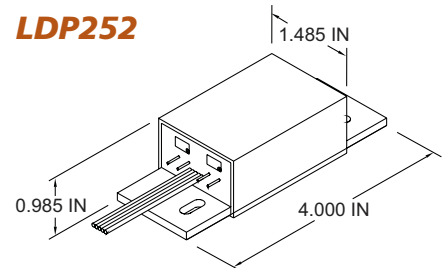
LDP234



TMD219



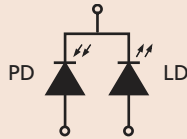
LDP252



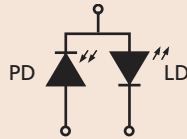
Diode Configurations—

The following are the common diode configurations that may be driven in automatic power control mode.

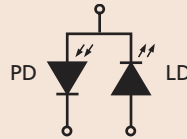
M-type:



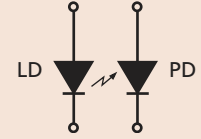
N-type:



P-type:



4-pin:



Our modules can support any diode when operated in constant current mode. -



Compatible diode types for each of our laser modules can be found within the product specification tables throughout the catalog. If you have a question about diode compatibility, please give us a call.

