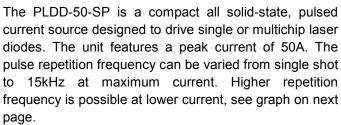


Analog Modules, Inc.

SHORT PULSE LASER DIODE DRIVER

- 20 to 50A (see on next page)
- <5ns pulsewidth</p>
- <2.5ns rise time</p>
- <4.0ns fall time</p>
- di/dt = 20A/ns
- Ultra lightweight and compact
- 12 volt input



The current monitor output may be viewed with an oscilloscope (>200MHz recommended) allowing the user a real time view of the load current.



Mounting holes are supplied which accept the most common laser diode packages (5.6 mm, 9 mm, TO-18, TO-5 and TO-52). This allows the light to exit normal to the driver; however, edge mounting of these laser diodes can also be accommodated.

Two power supplies are required: +12 to +28VDC at 10mA and a +350VDC (max) at 6mA (average current depends on rep rate).

Output Current

25 to 50A, adjustment by varying high voltage input from +250 to +350 V (+375 V is the absolute maximum)	
Pulse Rise Time	<2.5ns*
Pulse Fall Time	<4.0ns*
Pulse Width	<5ns*
Pulse Recurrence Frequency Range	See Graph
Compliance Voltage	350V (nom.) same as HV input**
Propagation delay	10ns (typical)

Input Trigger	SMA, +5V CMOS, rising edge Hi-Z or 50Ω jumper selectable
Current Monitor	SMA, 50Ω, 1.00V/100A
Input Power	+12 to +28VDC at 10mA +250 to +350V at 6mA (proportional to pulse frequency)
Dimensions	0.74"x1.30"x2.74"

^{*}With output shorted

^{**}Proportional to pulse frequency (HV supply only)

Specifications subject to change without notice.



APPLICATIONS:

Use for rangefinding, remote sensing, research, and other defense and security applications

Current Monitor Output

(Shorted Load)

