

Creative TechnologyLasers

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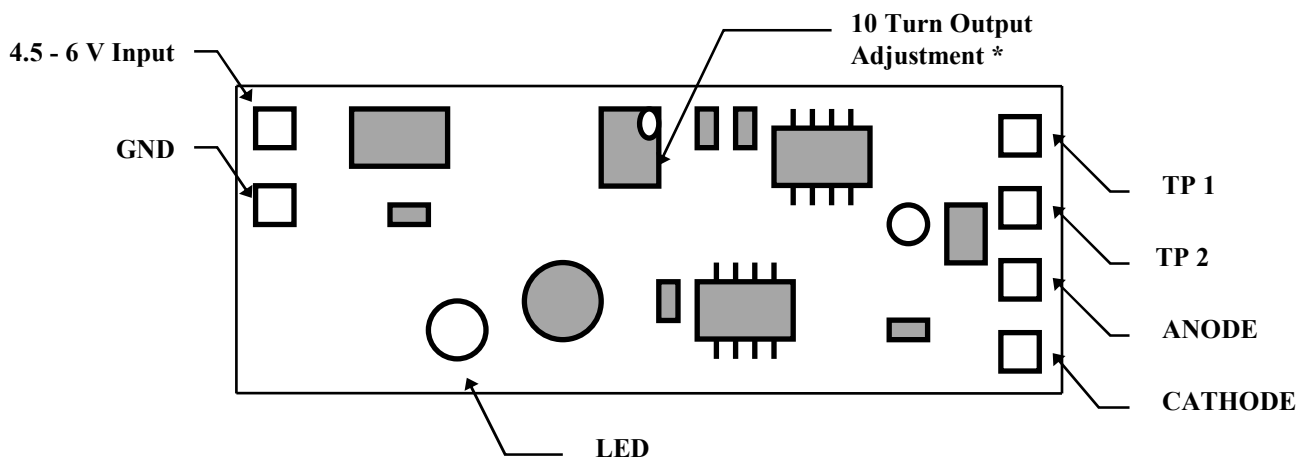
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SMALL 150mA CONSTANT CURRENT LASER DIODE DRIVER

“DCPCB2”

This small driver board is based on our popular DCPCB. This unit will drive up to 150 mA, allowing more control over output for lower current applications. Our other Driver, DCPCB controls up to 1.5A, using Motorola MJF 122 output device- see other spec page.

Below is a simple hook up diagram:



INPUT: 4.5 to 6 VDC, 10 to 160 mA OUTPUT: 1.2 to 2.5 VDC, 0- 150 mA

* Current Adjustment: R5 is a 10 turn pot (Min. to Max.)

CLOCKWISE = Decrease Current

COUNTER CLOCKWISE = Increase Current

Test Points: To monitor Current...

1 mA of Drive Current = 1 mV between Test Points (TP1 +, TP2 -)

i.e. 50 mV across TP1 & TP2 means 50 mA of Drive Current through the diode.

NOTE:

Always wear anti-static wrist band on mat when handling raw diodes. Hook up the laser diode first before applying power to the PCB, or laser diode damage could occur. GND. (NEGATIVE) Input and CATHODE Output are common. Careful, because many diodes have a Positive Case (ANODE). Input is REVERSE POLARITY PROTECTED. Transistor can be heat sunk to metal body if desired- Transistor Body is ISOLATED

It is also required that the laser diode has a sufficient heat sink. Can be utilized to control other loads including: TE Coolers, resistive heaters, etc.