Data Sheets

180mW 650nm Laser Diode Module

Sony Laser Diodes :
SLD1236VL100 pcs Pack $1,200
SLD1239JL-54L 100 pcs Pack $1,400

Sharp-GH0780MA2C

eBay Shop.

By bidding you AGREE and ACCEPT:

You Are over 18 and know the potential hazards inherent in high power laser equipment.

You WILL use this device in a safe and sane manner for a legal purpose

You Accept this item as a COMPONENT for integration in a system of YOUR OWN design and will hold the SELLER LEGALLY harmless from any and all LIABILITY

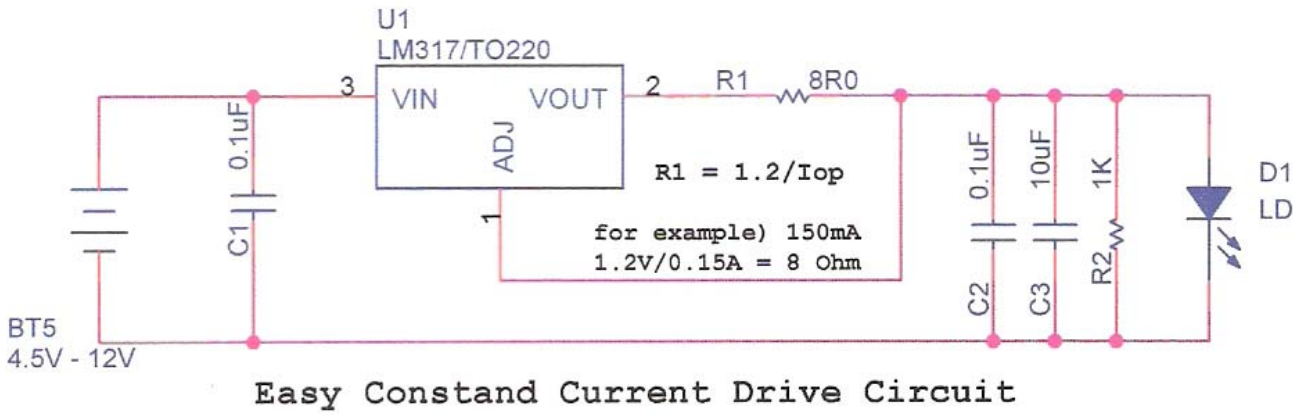
You are buying A LOT QTY= 1 LASER DIODE MODULE FOR YOUR BID

You know the electronic safety precautions necessary with this item and therefore accept it AS IT IS as an EXPERIMENTAL COMPONENT without warranty.

For Korean

Ex) Constant Current Laser Diode Drive

For this circuit, must not connect Laser Diode After Power On(Connect before Power On).
For 150mW Blue-Violet 405nm battery voltage must over 8.5V because this diode need about 5.25V(105mW : 11 or 12 ohm).



Ex) Battery or Constant Voltage Laser Drive Resistance calculation :

R = (Vbat - Vf) / I

where R : Resistance(ohm)
Vbat : Battery or power supply voltage(Volt)

Vf : Laser Diode forward voltage drop from datasheet (Volt)
I : Laser Diode drive current from datasheet (Ampere)

For example :

SLD1236VL Vop 2.8V(2.5V to 3V), Iop 140mA(130 to 150mA) at 80mW, use 2 AA Battery(3.3V for new battery)

R=(3.3 - 2.8)/0.14 aproximation 3.57 Ohm

Can use general Value 3.3 or 3.9 Ohm.

For 150mW blue-violet Vop = 5.25V(about 5V), Iop = 105mA at 90-110mW, use 4 AA Battery(6.5V for new battery)

R=(6.5 - 5.25)/0.105 = 11.9 ohm (aproximation 12 Ohm)

Approximate(easy calculate) Laser Diode Power consumtionption :

P = VI

where V : Diode forward Voltage
> I : Diode Current

example)

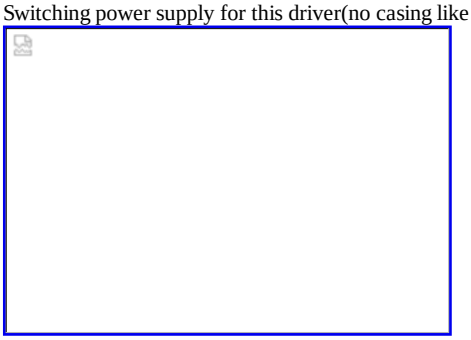
2.8 * 0.14 = 0.392 Watt

Can use 1/2 W one resistor or 1/4W two resistor parallel or serial connection

High power laser pointer is very dangerous, please use it safe and sane manner for a legal purpose.

154mA(168mA for SLD1239JL) switch mode constant current Driver for SLD1236VL, 3.2-5.1V input(146mA for SHARP inflared)
This board can insert to blank housing.
> Size 16 x 10 mm- Board pattern can be change.
Pin from left up to down; +V Input, GND, -Disable(default enabled)
Right up to down; +V output, GND.

156mA(167mA for SLD1239JL, 104mA for 150mW blue-violet) output
switch mode constant current driver for SLD1236VL, 6-15V input(8.5-15V for blue-violet).
Also can order other constant curret value from 100mA to 1.5 A- Ask before order(can set to near order value-fixed).
Switching power supply for this driver(no casing like this module)

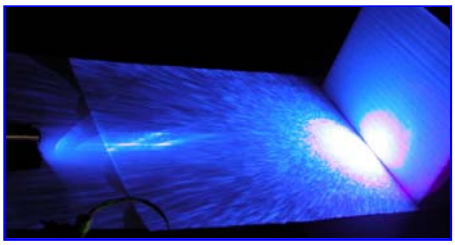


Laser Beam From SLD1239JL Module

Drive : Constant Voltage 2.85V



60mW Blue Violet Laser Diode

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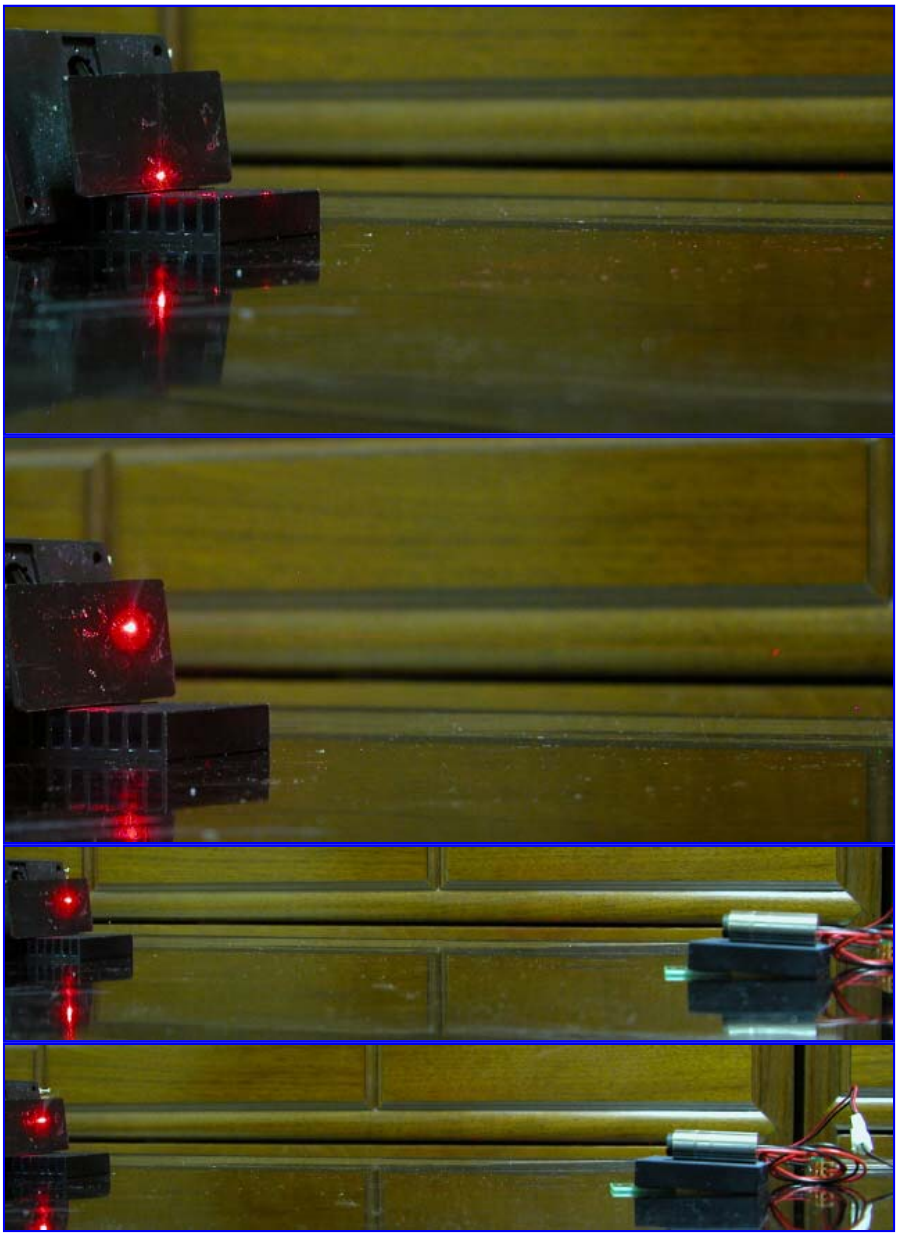
Cigarette fire(light) - From Left, Start...Before Fire...After Fire



Punch IC Reel Film - From before punch to after punch

Plastic - Compare White Marks(After fire) and Smoke



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Personal build Laser Pointer, Use 140mW SLD1234VL Laser Diode

New version.
Can purchase 180mW Laser Diode Module which personally built and fit in penlight.($100 include penlight, module, shipping)
You need only change bulb head to laser module head and need 2 AAA battery.