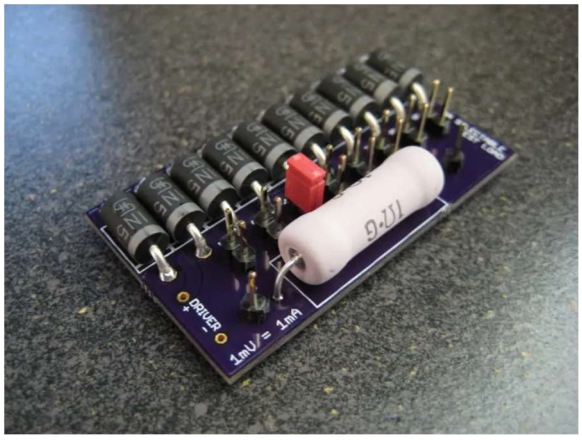
Selectable Test load

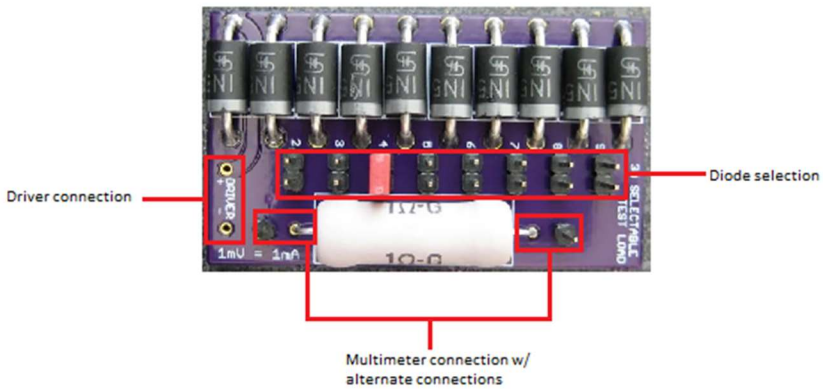


The basic test load with that allows you to select how many diodes you need! A heatsink may be applied with some thermal adhesive over the diodes to keep them cool during testing. For use with laser or LED drivers.

Features:

- 10 1N5404 diodes
- 1Ω metal oxide resistor
- Purple PCB with ENIG finish

Reference data:



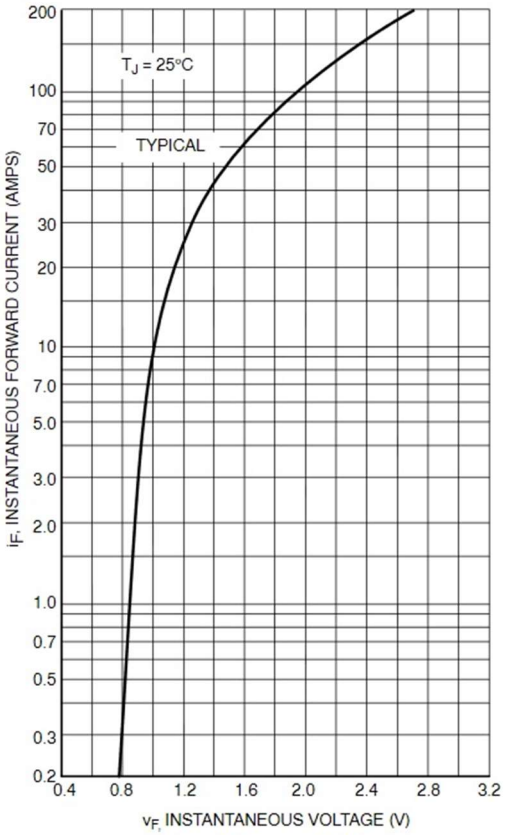


Figure 1. Forward Voltage

Amps (A)	# of diodes (jumper pin setting)								
	2	3	4	5	6	7	8	9	10*
0.2	1.56	2.34	3.12	3.90	4.68	5.46	6.24	7.02	7.80
0.5	1.64	2.46	3.28	4.10	4.92	5.74	6.56	7.38	8.20
1	1.70	2.55	3.40	4.25	5.10	5.95	6.80	7.65	8.50
2	1.76	2.64	3.52	4.4	5.28	6.16	7.04	7.92	8.80
3	1.86	2.79	3.72	4.65	5.58	6.51	7.44	8.37	9.30

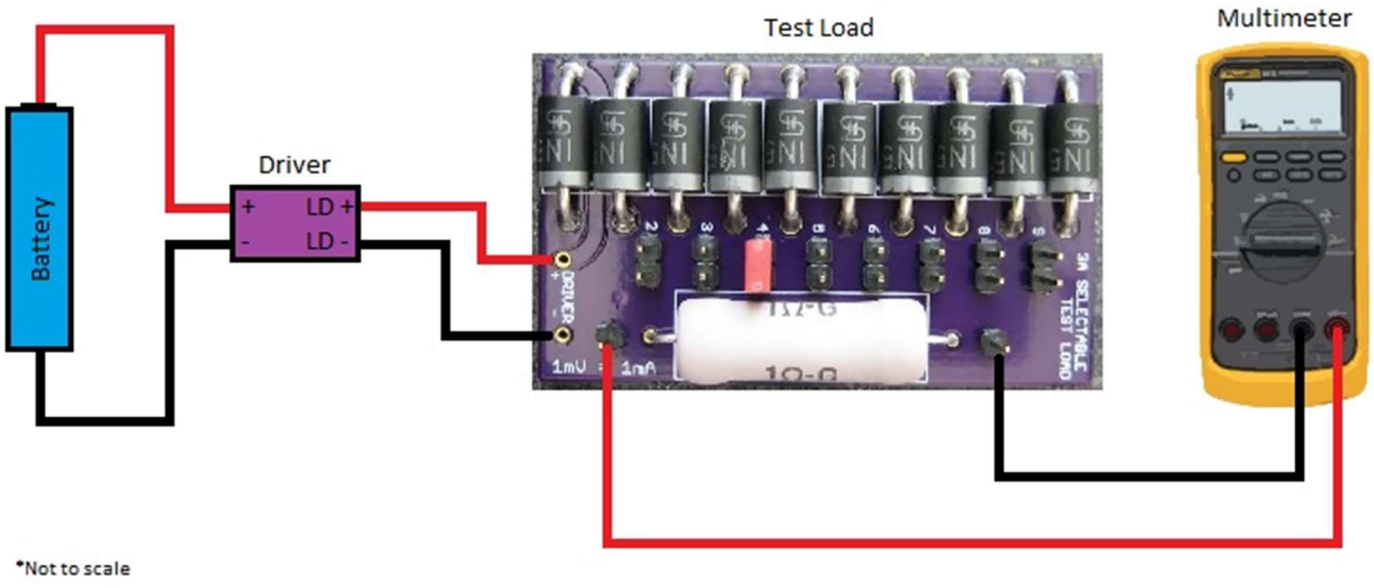
* This setting is achieved by removing the jumper pin to allow all diodes to be used.

How to use the selectable test load:

1. Choose the number of diodes needed to simulate your laser diode on the numbered jumper pins
2. Hook up your driver to the test loads on the designated pin holes.
3. Place your multimeter leads across the resistor and turn it on and set it to read in DC volts.
4. Attach the battery or batteries to the driver and see what the multimeter reads.
5. Remember 1 mV = 1 mA due to Ohm's law.
6. What you see on the multimeter is the amount of current the driver in use is putting out.
7. If you get a negative value just switch the multimeter probes.

To calculate total voltage drop of the test load take into account diode voltage drop + resistor voltage drop (V=IR)

(Note: estimated value will vary, ***resistor drop out not calculated in table****)*



*Not to scale