

SHO Booster

Components

C1	100nF (Poly Film)	R1	10M	BOOST	5K Reverse Log
C2	10uF (Electrolytic 25V min)	R2	10M		(can use linear)
		R3	5K1		
D1	9.1V Zener (1N4739A or similar)	R4	100K		
Q1	BS170 MOSFET				

Notes

Be careful not to short out the diode on the edge of the potentiometer. Take care not to hold the soldering iron on too long when solder the diode as they are sensitive components. Reverse log potentiometer gives the best range for this effect, you can use a linear one if you don't have a reverse log.

Board Connections

The PCB connections are labelled as the following:

I - Input, O - Output, V - 9V DC in, G - Ground

Potentiometers are connected from pin 1 to the square pad on the PCB. This board was designed so you can use right-angle board mount potentiometers on it if desired, otherwise you will need to solder wired from the pads to the correct pin/lug. Jack sleeves and DC centre pin should be connected to ground. V, LED + should be connected to the positive pin of the DC connector.

