Mushfiqur Sakher

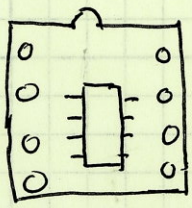
Voltage Regulator Design.

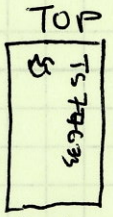
TI 77633 IC

- 5v input from μC to 3.3 (exact) output.
- Max Iout = 500 mA!

→ Breakout board built with soldered chip.

Breakout Board (which is top)

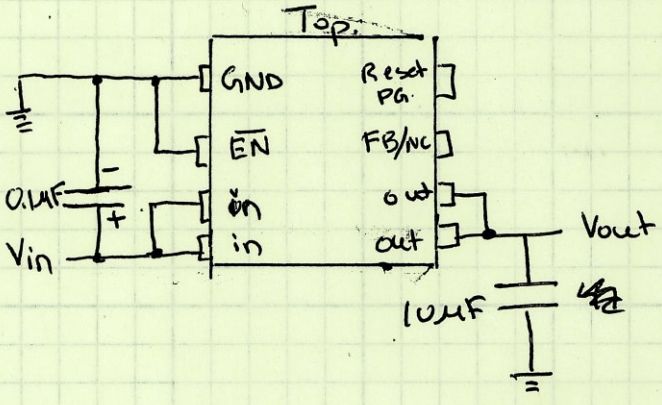




- Board has a ridge at top.

Schematic

→ Regulator is a fixed 3.3 V version so Vin = 5V.



- 10μF capacitor needed to stabilize the control loop.
- Regulator runs a loop to check if V_o is 3.3 or not.

→ Feedback sensing system.

Note: 0.1μF input capacitor not required. It is there to clean up signal.