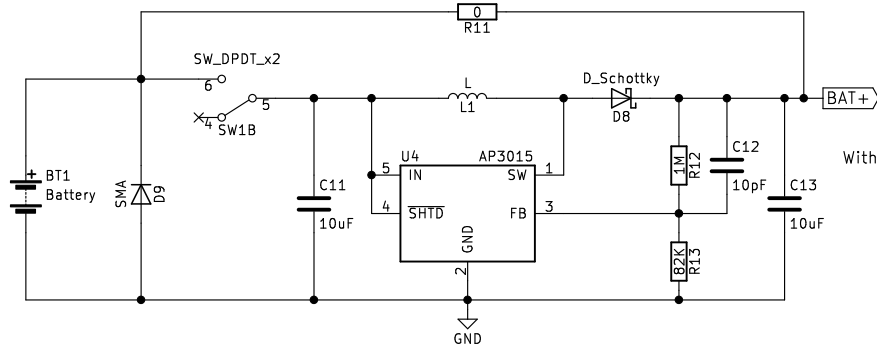
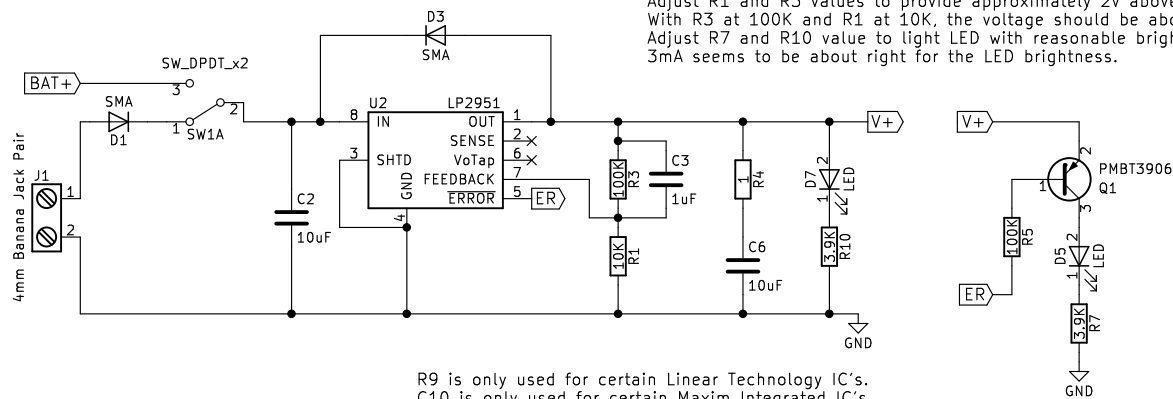


R11 is only populated if switching stage is not used.



With R12 at 1M and R13 at 82K, Bat+ should be 16.23V

Adjust R1 and R3 values to provide approximately 2v above reference output voltage.
With R3 at 100K and R1 at 10K, the voltage should be about 13.58V
Adjust R7 and R10 value to light LED with reasonable brightness for the voltage chosen.
3mA seems to be about right for the LED brightness.

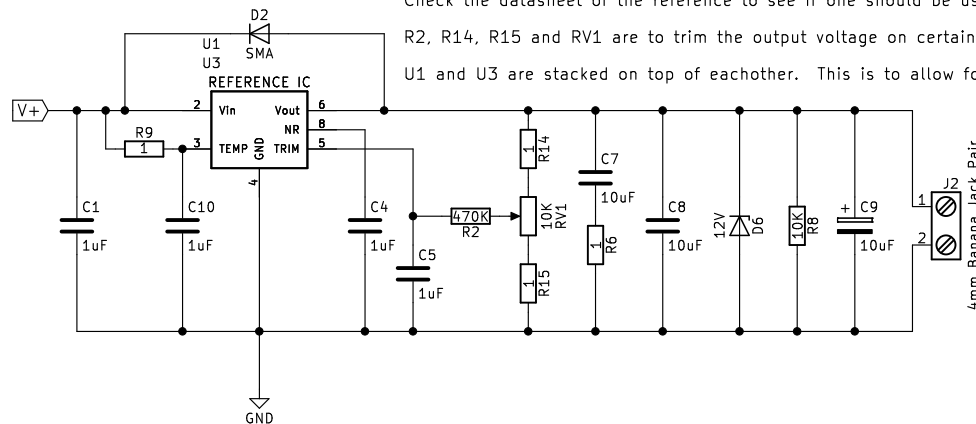


R9 is only used for certain Linear Technology IC's.
C10 is only used for certain Maxim Integrated IC's.

C4 and C5 are optional stability improving capacitors.
Check the datasheet of the reference to see if one should be used.

R2, R14, R15 and RV1 are to trim the output voltage on certain references.

U1 and U3 are stacked on top of eachother. This is to allow for the DIP footprint on the PCB



D6 is intended to clamp the output voltage if driven from an external source.
It also provides reverse voltage protection.

R8 is to provide a fixed load for the regulator to work against and is probably not needed.

Only one output bypass cap is really needed. The different ones shown just provide options if a particular reference needs a certain capacitance or ESR.

Nathan Schenk

Schenktronics

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File: OmniRef.sch

Title: OmniRef

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