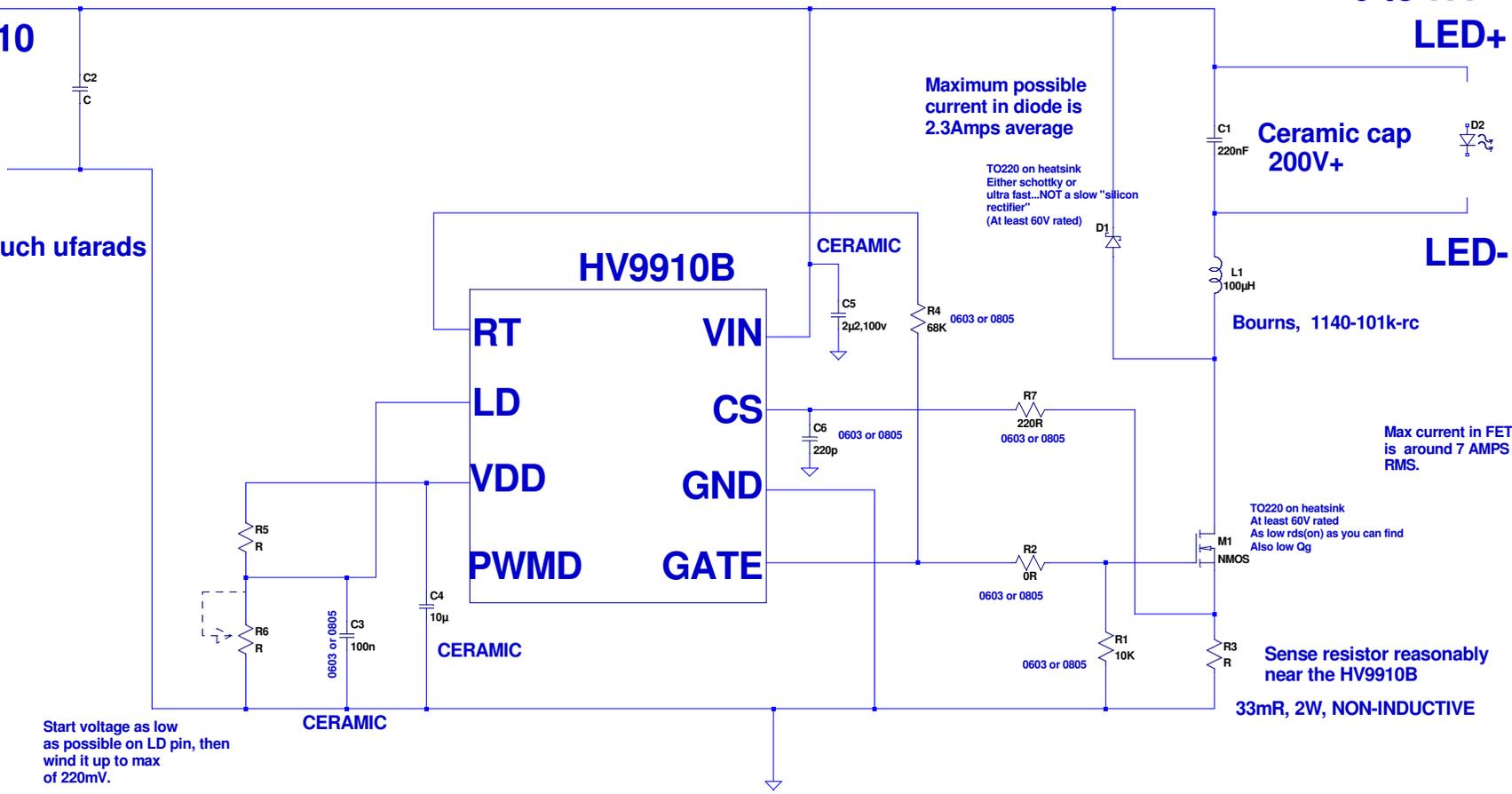


Battery pack is 10 Lithium so 32V to 45V

Ceramic cap min 63v, as much ufarads as you can

VIN+



8 PARALLELED strings of 10 LEDs in series... (LEDs are Cree XP-G) 0 to 7A LED+

Maximum possible current in diode is 2.3Amps average

TO220 on heatsink Either schottky or ultra fast...NOT a slow "silicon rectifier" (At least 60V rated)

Ceramic cap 200V+ 220nF

Bourns, 1140-101k-rc 100µH

Max current in FET is around 7 AMPS RMS.

TO220 on heatsink At least 60V rated As low rds(on) as you can find Also low Qg

Sense resistor reasonably near the HV9910B

33mR, 2W, NON-INDUCTIVE

Start voltage as low as possible on LD pin, then wind it up to max of 220mV.