Lab 2a Lecture Notes

Wednesday, October 27, 2021 3:37 PM

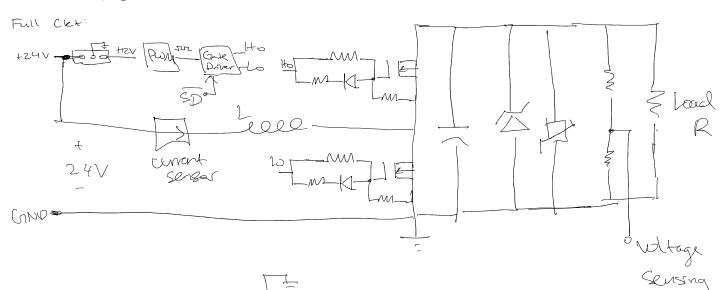
Logistics:

- Lab IB deadtime question See announcement

- Lest I report due 2 weeks after lab 1C

Lab 21: current sensing and oversoltage protection.

1. Layout all components. Do not need to solder.



(U serse)

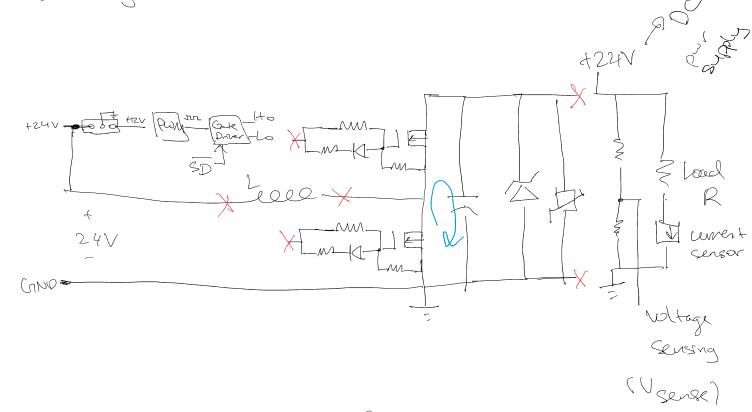
THE SD

overroltege protection

For Lab ZA:

do NOT cornelt gate durer to
MOSFETS or output capacitor, diode, MOV
to Load

Jump power sypply to load to test sensing.



Site output voltage divider

to Vandle O-60V. Verez [0,3.3V]

So at 60V, output 3.3V. [est with [20-35]V.

Note: current sensor on load just to test it. will more to L
later.

Note: Load [LOV-MOD] . Can change to test different currents.

Comparter Review:

Vin Vin

Vin Wint Low Vin Wint HIGH

Layout considerations:

- Jeep switching voles SMALL

- Switch vole drawn in blue

Note: load resistors way get hot

current sensor sensitivity:

Terremin Sensitivity (mV/A)

find in datasheet