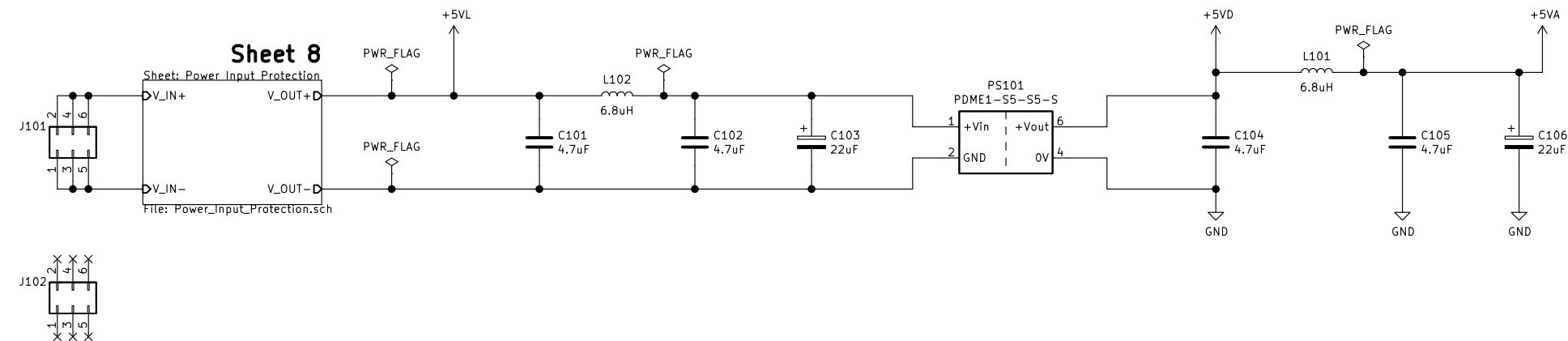
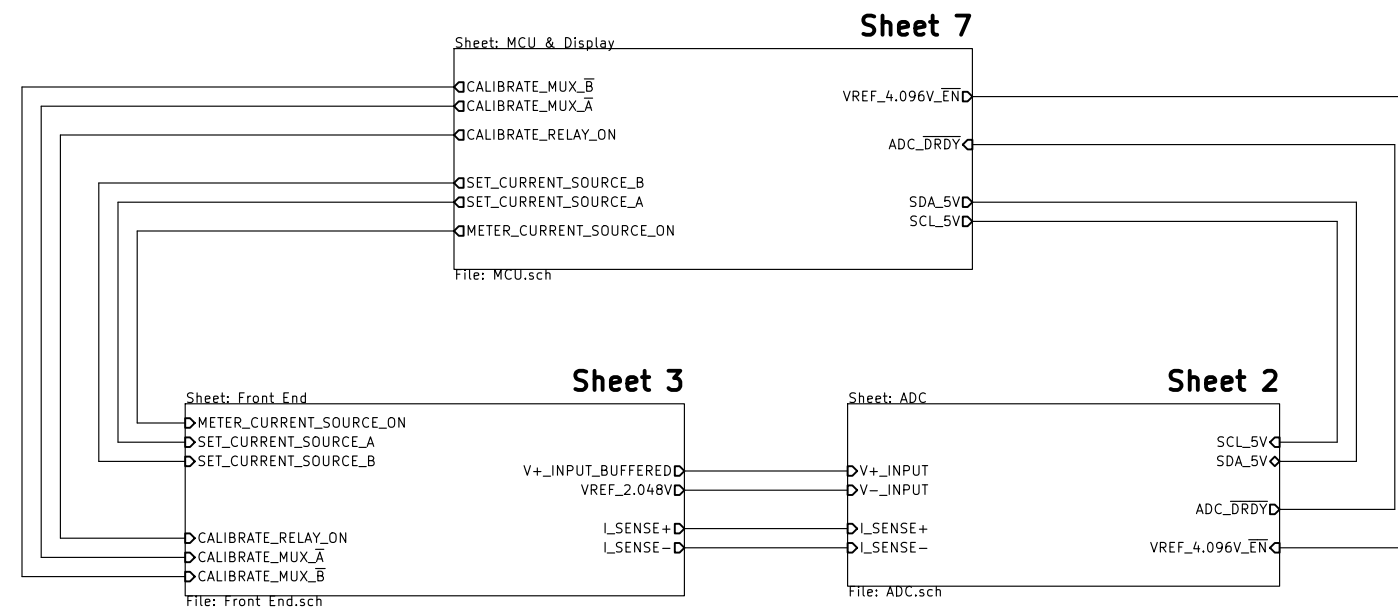
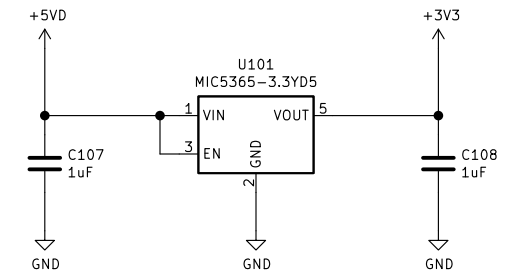


Input Voltage Isolator and Filter



3.3V Regulator



Input Filters

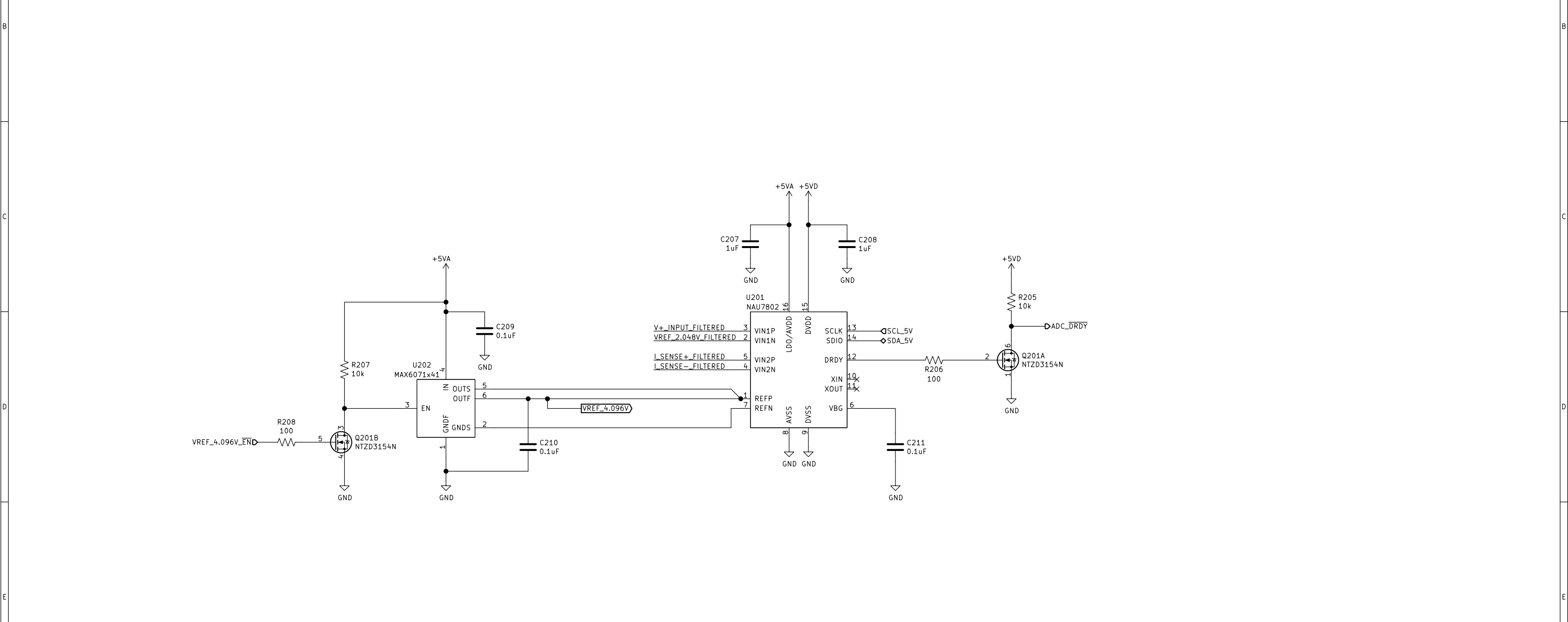
The diagram illustrates the input filtering for two measurement channels: Voltage/Ohms and Current.

Voltage/Ohms Channel:

- V+_INPUT:** The input signal passes through resistor R201 (100 Ohms) and is then filtered by capacitor C201 (1uF) connected to GND. The output is V+_INPUT_FILTERED.
- V-_INPUT:** The input signal passes through resistor R203 (100 Ohms) and is then filtered by capacitor C205 (1uF) connected to GND. The output is VREF_2.048V_FILTERED.

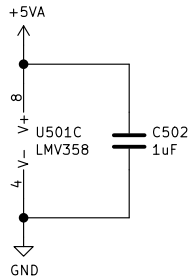
Current Channel:

- I_SENSE+:** The input signal passes through resistor R202 (100 Ohms) and is then filtered by capacitor C202 (1uF) connected to GND. The output is I_SENSE+_FILTERED.
- I_SENSE-:** The input signal passes through resistor R204 (100 Ohms) and is then filtered by capacitor C206 (1uF) connected to GND. The output is I_SENSE-_FILTERED.

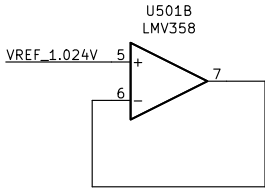


Isaac Rex

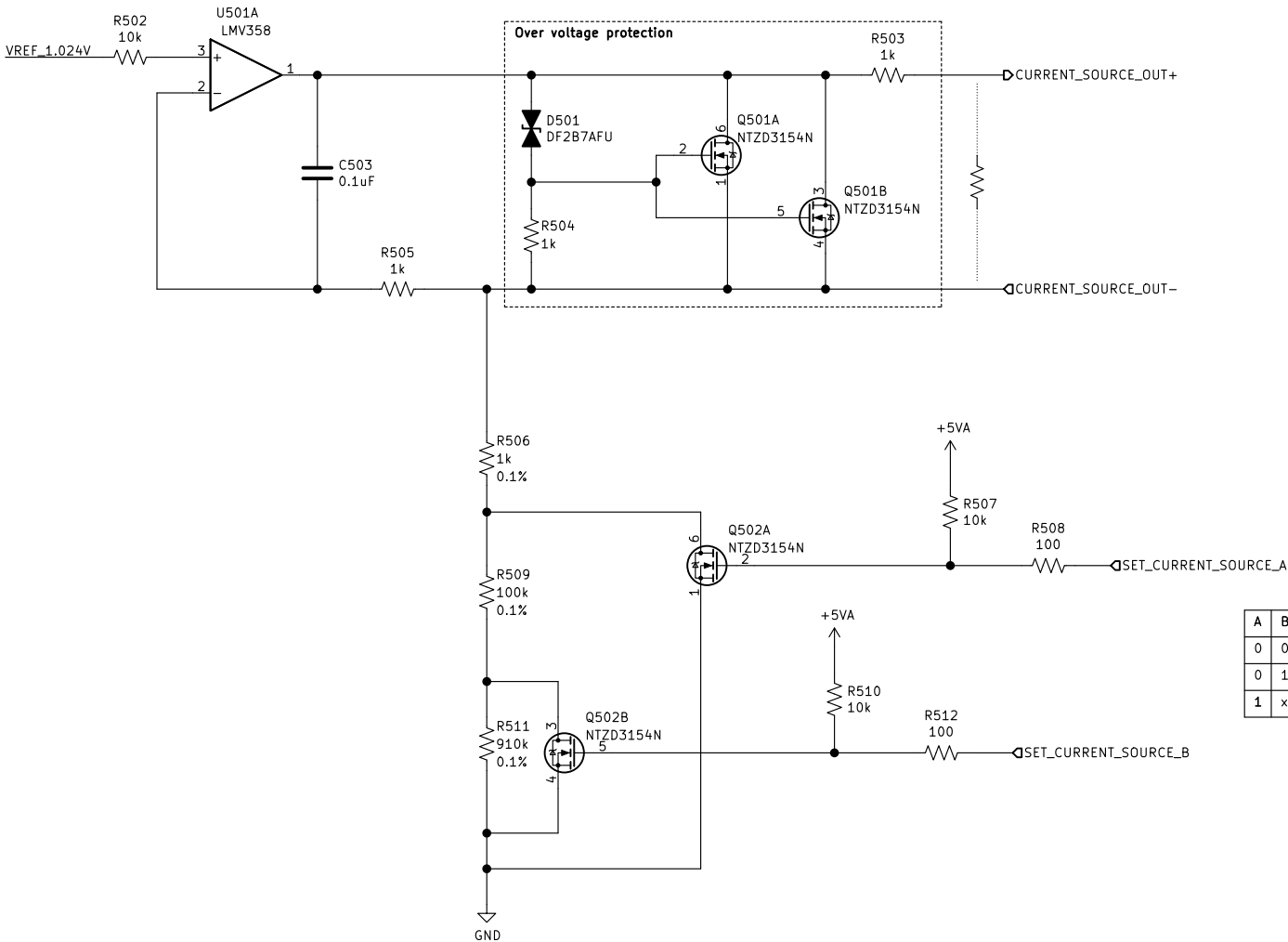
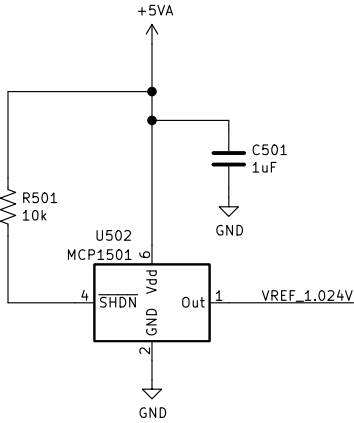
Op-Amp Power



Op-Amp Termination



1.024V Reference



A	B	Iout
0	0	1.013uA
0	1	10.14uA
1	x	1.024mA

/Front End/Ohmeter Current Source/

Project: Toast-O-Meter

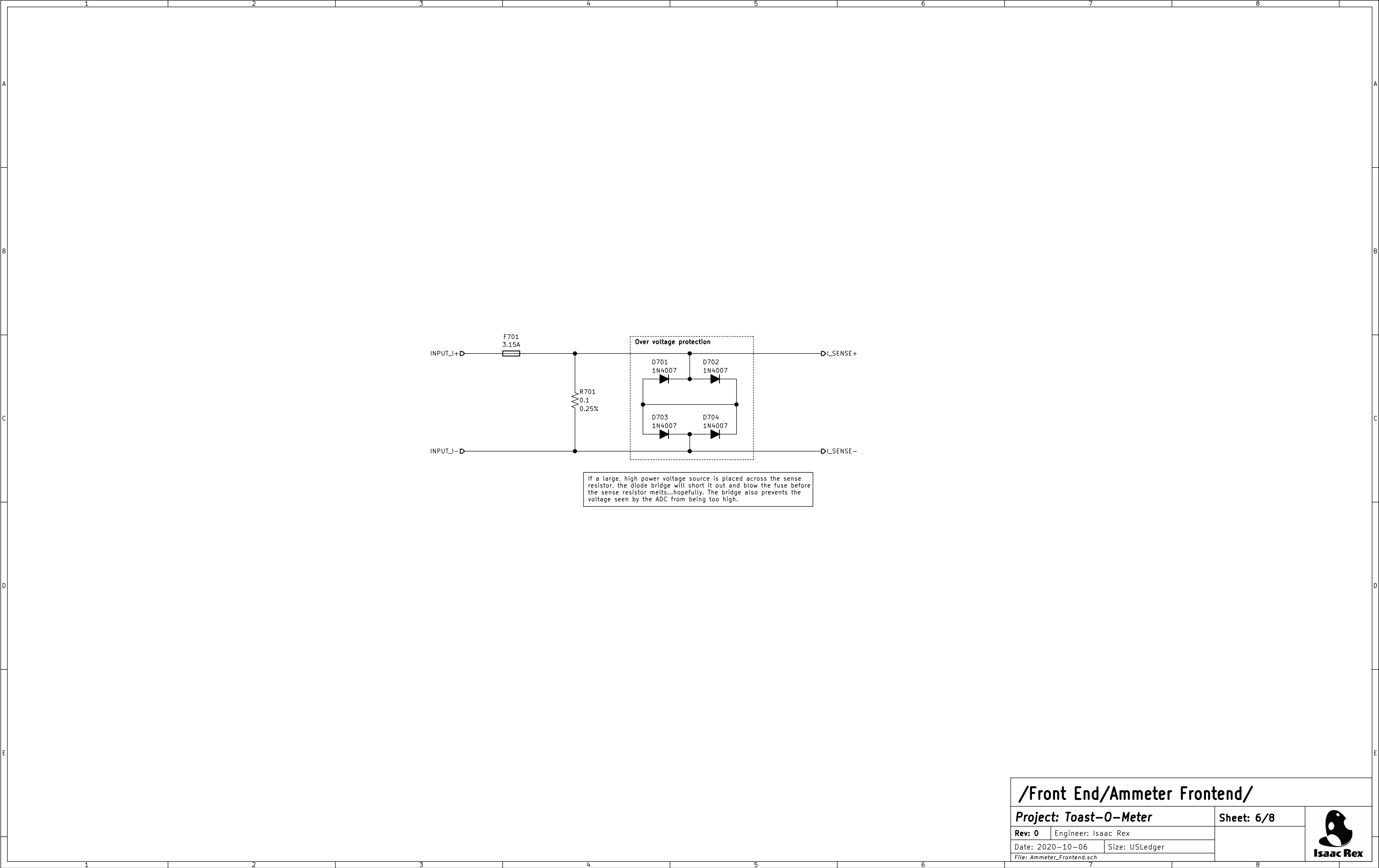
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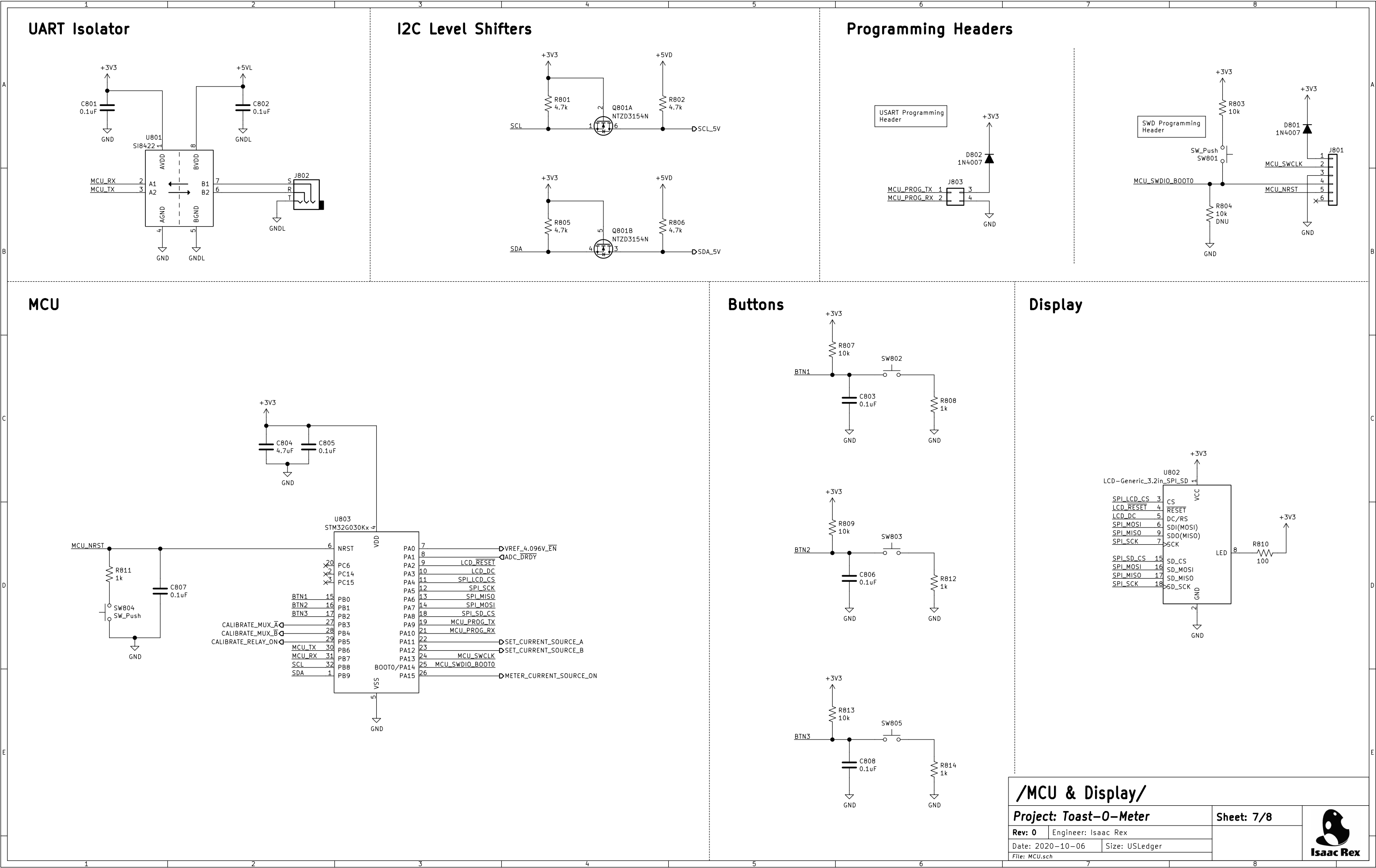
Rev: 0 Engineer: Isaac Rex

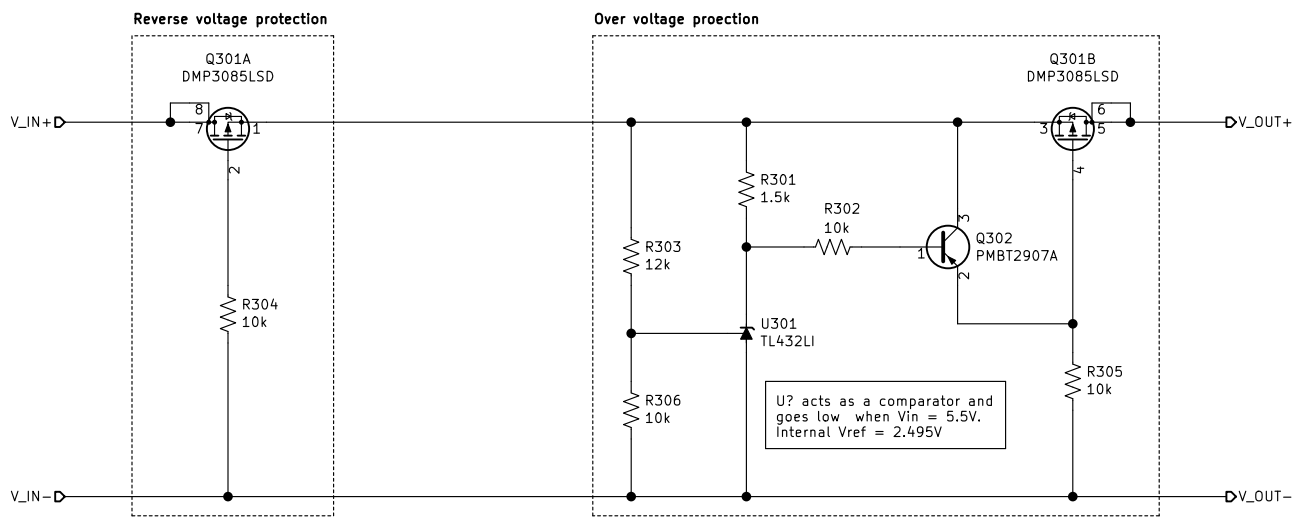
Date: 2020-10-06 Size: USLedger

File: Ohmeter Current Source.sch









/Power Input Protection/

Project: Toast-O-Meter

Sheet: 8/8

Rev: 0 Engineer: Isaac Rex

Date: 2020-10-06 Size: USLedger

File: Power_Input_Protection.sch

