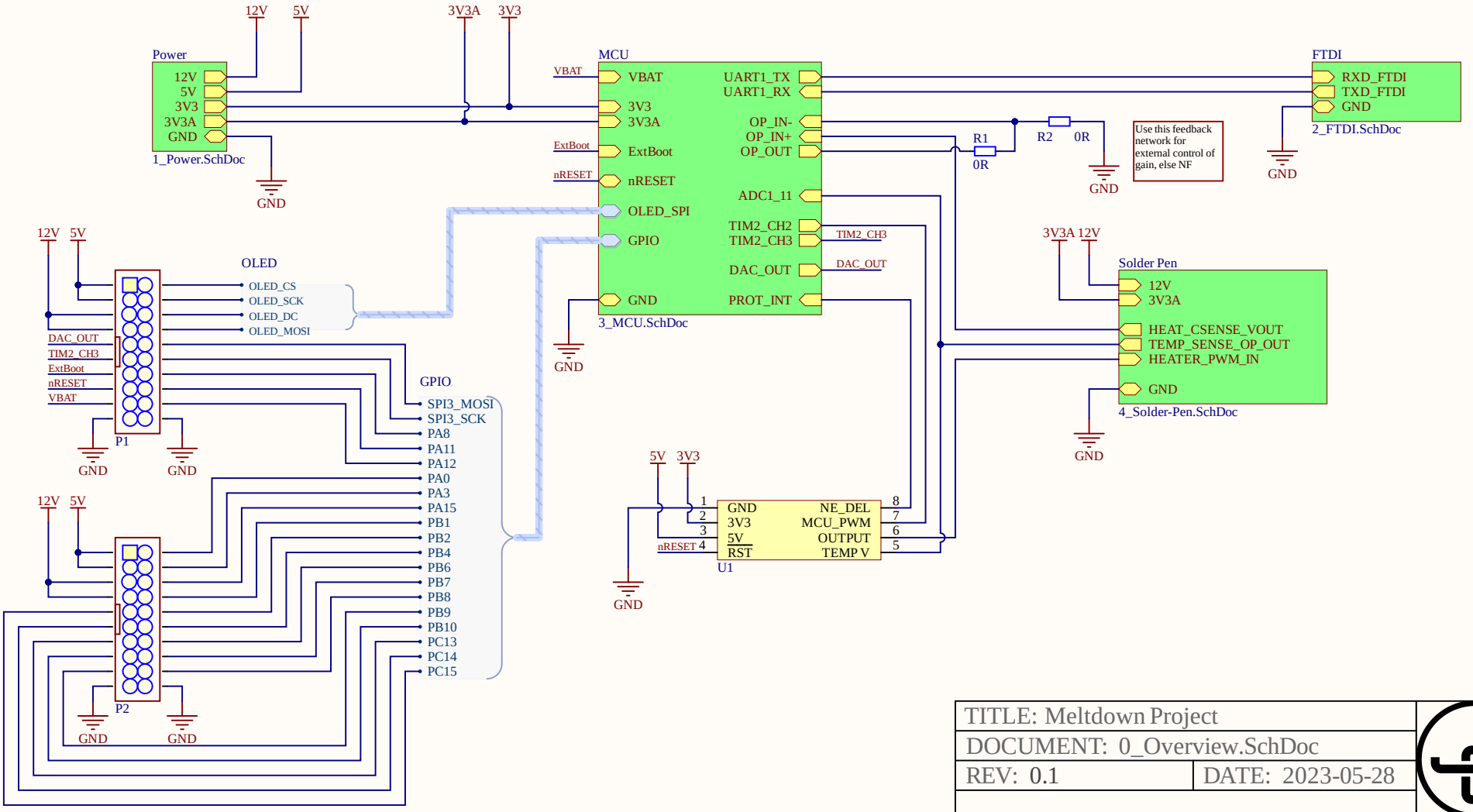
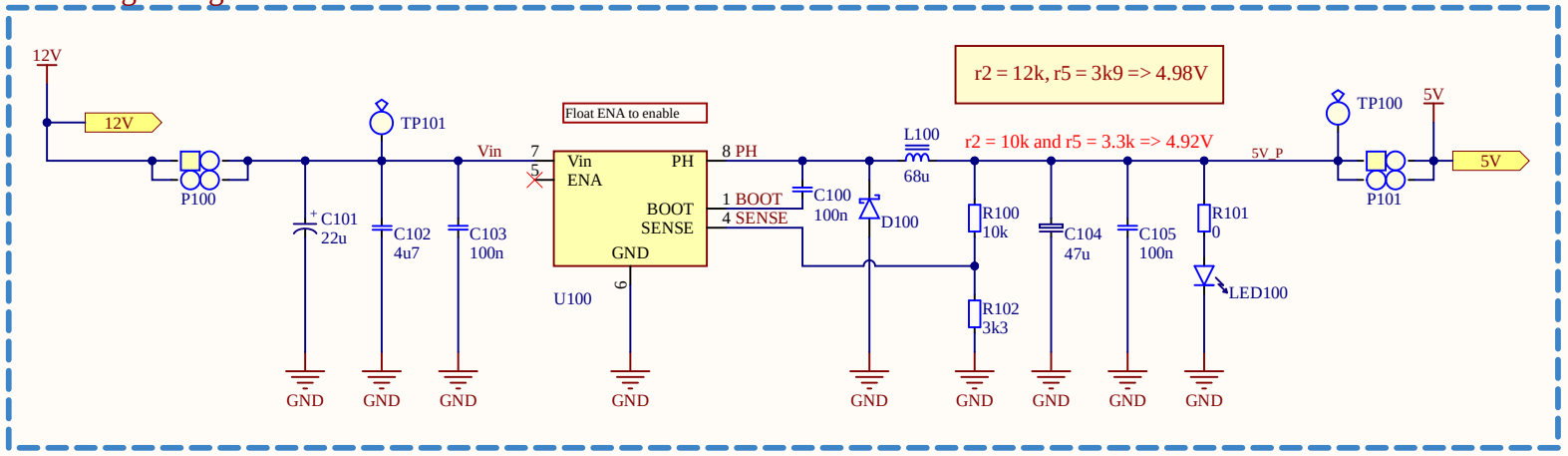
Meltdown Solder Station



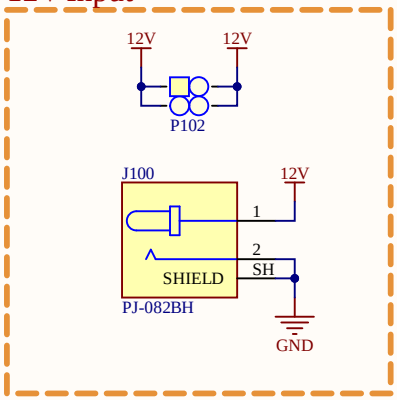
TITLE: Meltdown Project	
DOCUMENT: 0_Overview.SchDoc	
REV: 0.1	DATE: 2023-05-28

[1] Power

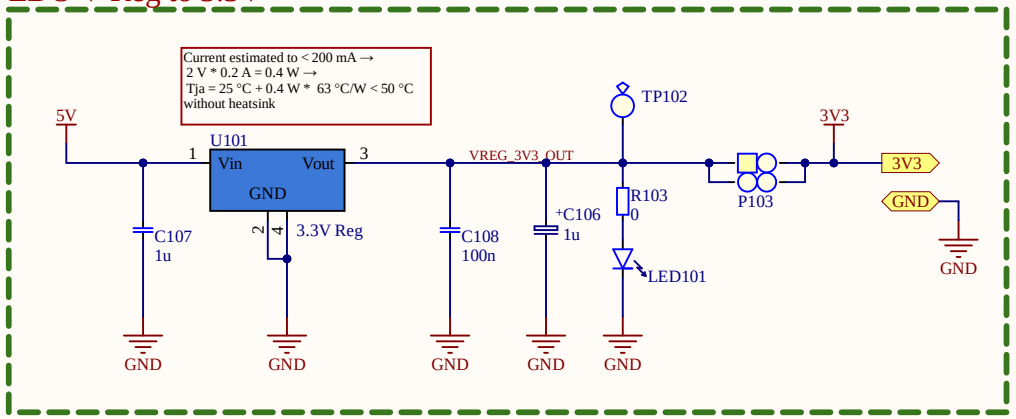
Switching V-Reg to 5V



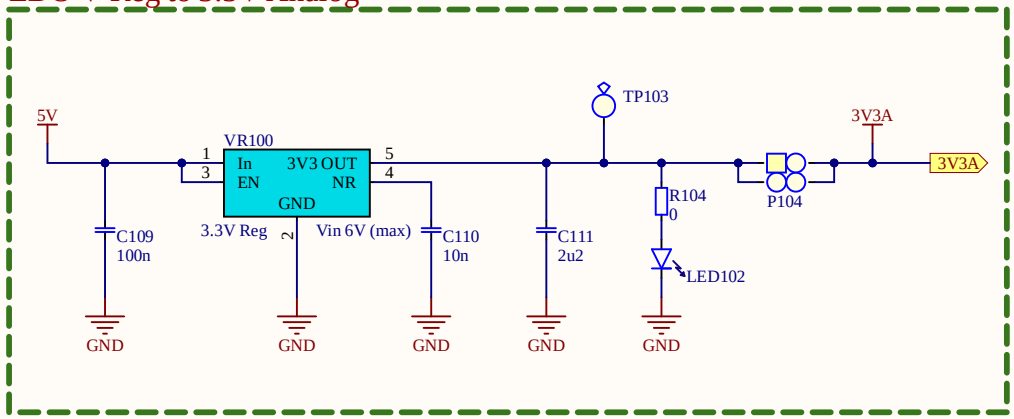
12V Input



LDO V-Reg to 3.3V

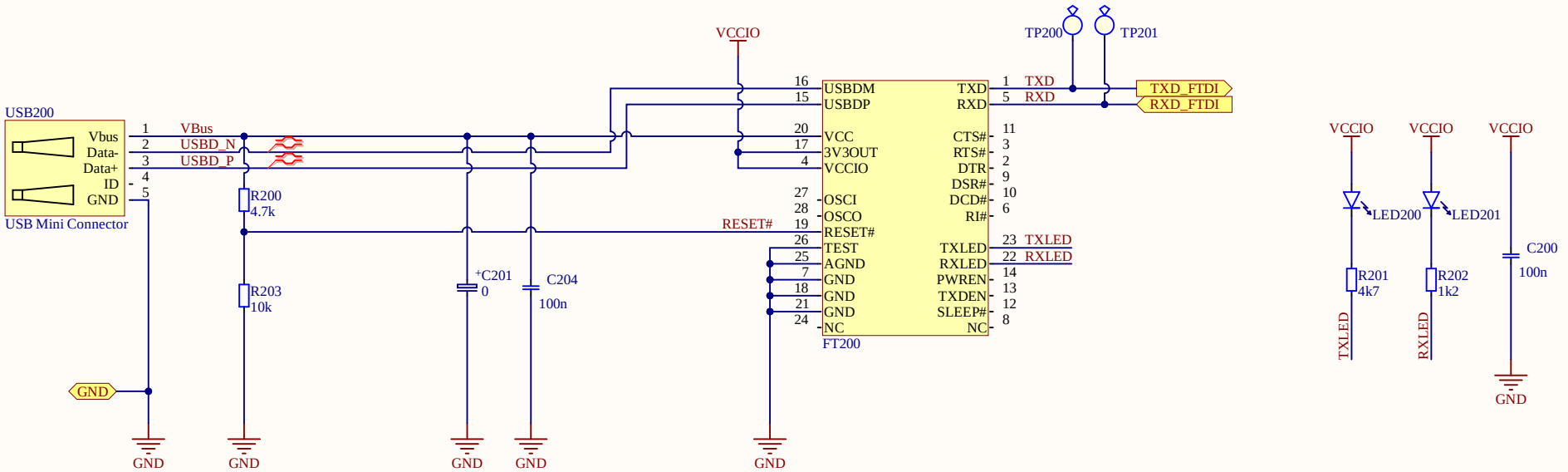


LDO V-Reg to 3.3V Analog



TITLE: Meltdown Project	
DOCUMENT: 1_Power.SchDoc	
REV: 0.1	DATE: 2023-05-28

[2] FTDI

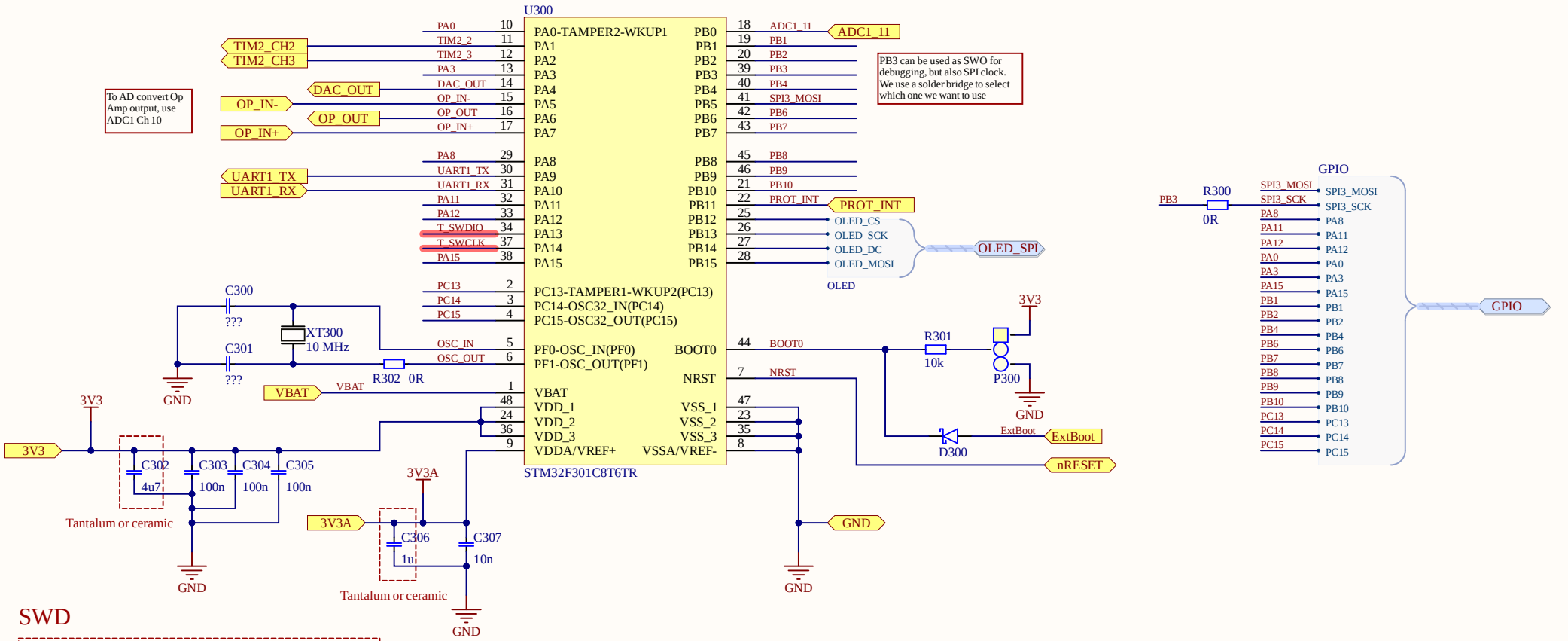


TITLE: Meltdown Project	
DOCUMENT: 2_FTDI.SchDoc	
REV: 0.1	DATE: 2023-05-28

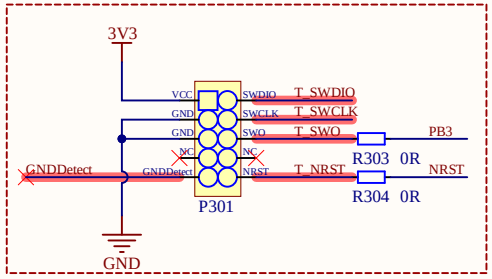
[3] MCU

TODO

- Check nRST, might be driven from multiple? connect to interface board
- Use a Pi-filter for VDDA?



SWD



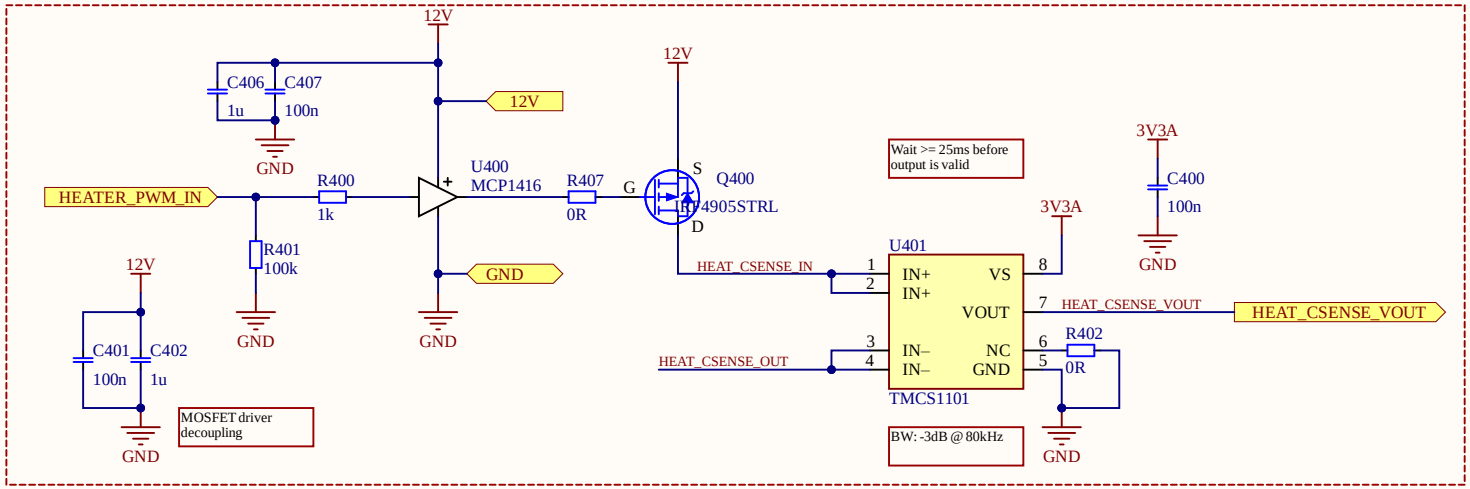
TITLE: Meltdown Project	
DOCUMENT: 3_MCU.SchDoc	
REV: 0.1	DATE: 2023-05-28

[4] Solder Pen

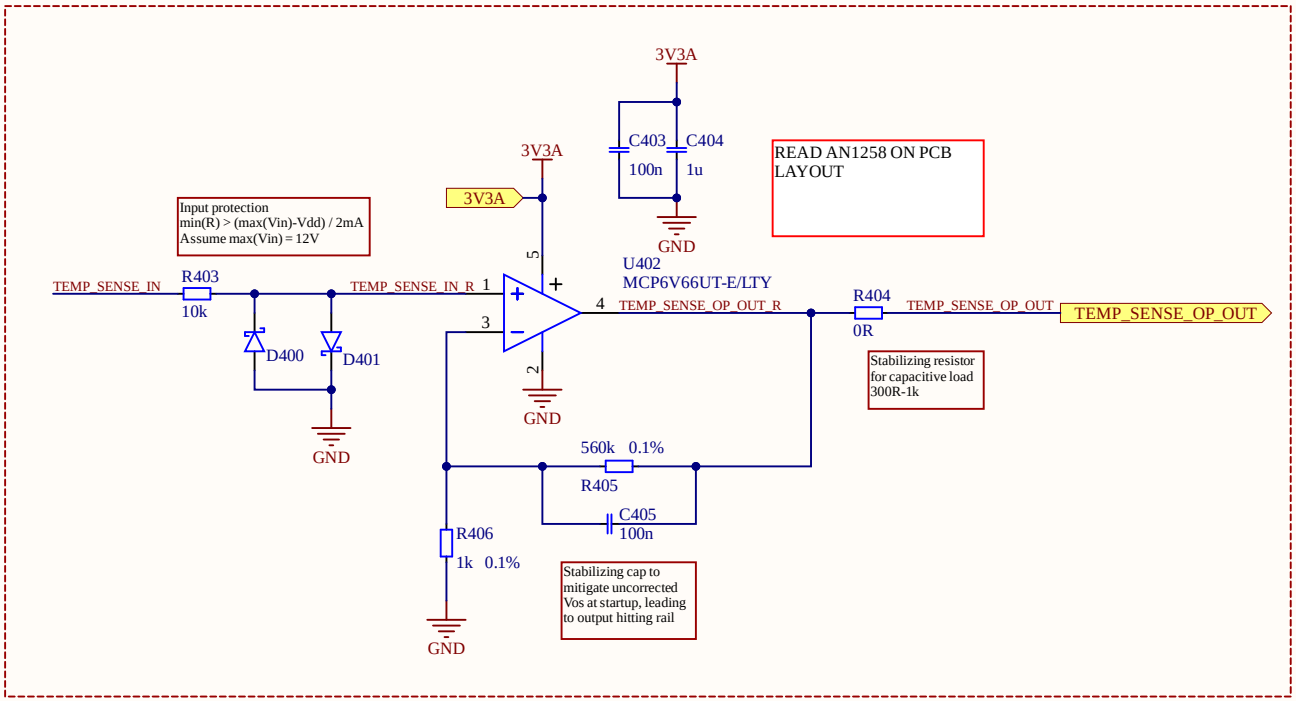
TODO

- Check solder pen connections
- Check if mosfet driver is 1416 or 1416R - we have 1416

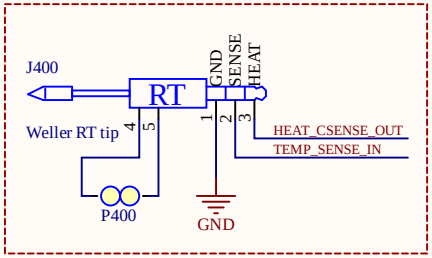
Driver circuit for solder tip, with current sensing



Temp sensor precision amplifier



Solder tip connector



TITLE: Meltdown Project	
DOCUMENT: 4_Solder-Pen.SchDoc	
REV: 0.1	DATE: 2023-05-28