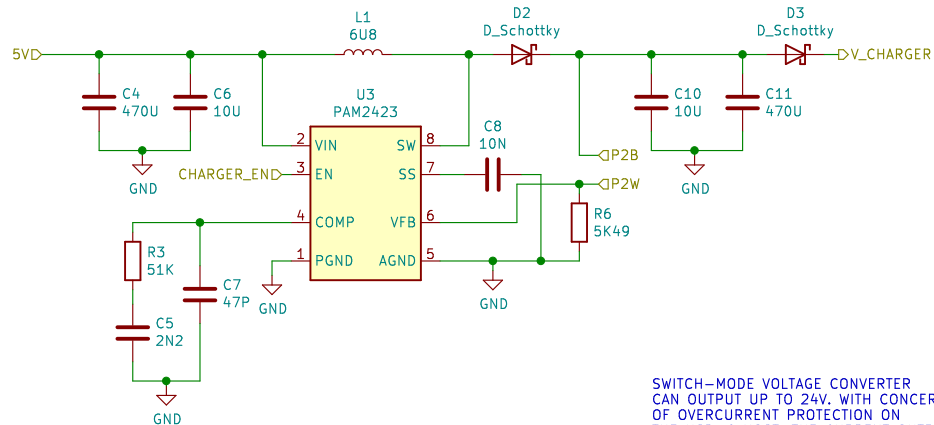
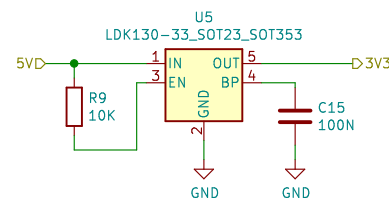


BATTERY CHARGER BOOST CONVERTER

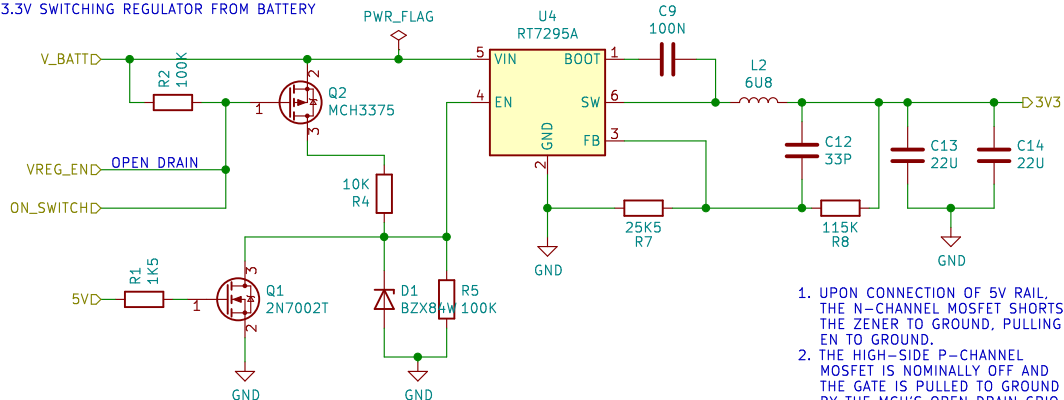


SWITCH-MODE VOLTAGE CONVERTER
CAN OUTPUT UP TO 24V, WITH CONCERN
OF OVERCURRENT PROTECTION ON
THE USB-C HOST, THE CURRENT OUTPUT
MUST BE LESS THAN 625mA.

3.3V REGULATOR FROM 5V BUS



3.3V SWITCHING REGULATOR FROM BATTERY



1. UPON CONNECTION OF 5V RAIL, THE N-CHANNEL MOSFET SHORTS THE ZENER TO GROUND, PULLING EN TO GROUND.
2. THE HIGH-SIDE P-CHANNEL MOSFET IS NOMINALLY OFF AND THE GATE IS PULLED TO GROUND BY THE MCU'S OPEN DRAIN GPIO.
3. THE ON SWITCH PULLS THE GATE LOW TO TURN ON THE SWITCH. THE GATE IS HELD LOW UNTIL A TIMER EXPIRES FOR LOW POWER MODE.

Sheet: /Power/
File: Power.sch

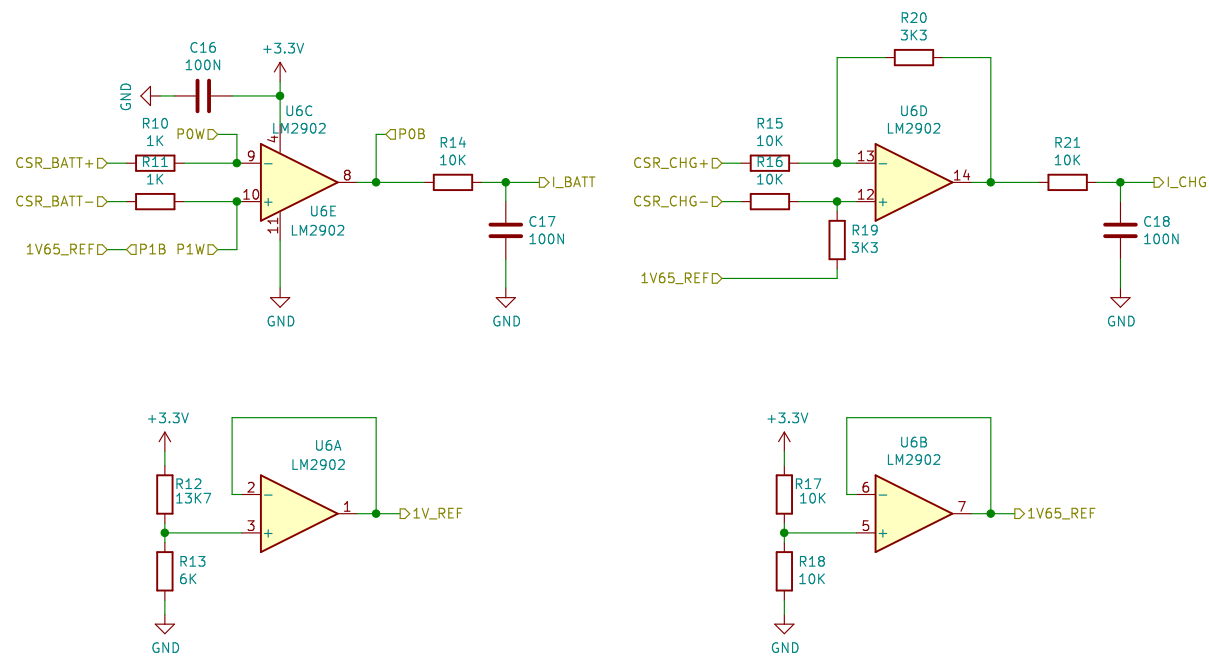
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KiCad E.D.A. kicad (5.1.10)-1

Date:

Rev:

Id: 3/8



Sheet: /Current Sensing/Voltage Reference/
File: CSR_VREF.sch

Title:

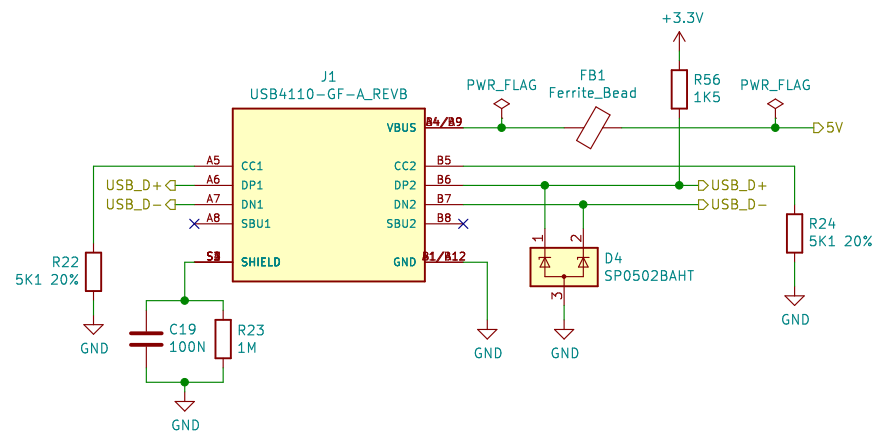
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Rev:

Id: 4/8



Sheet: /USB POWER/
File: USB_POWER.sch

Title:

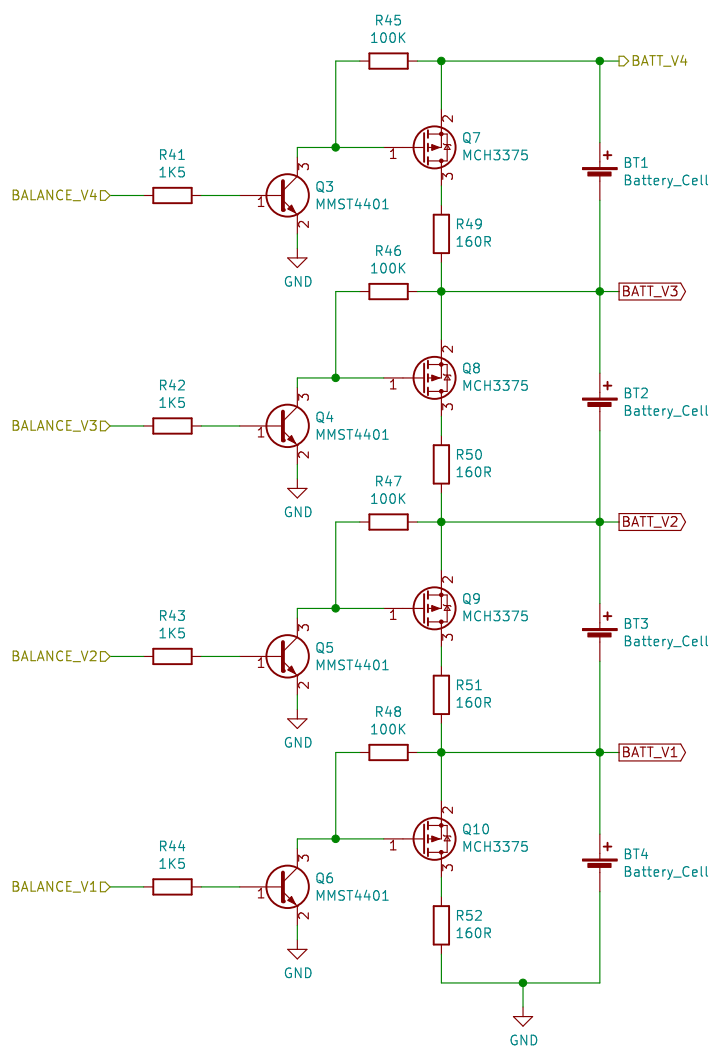
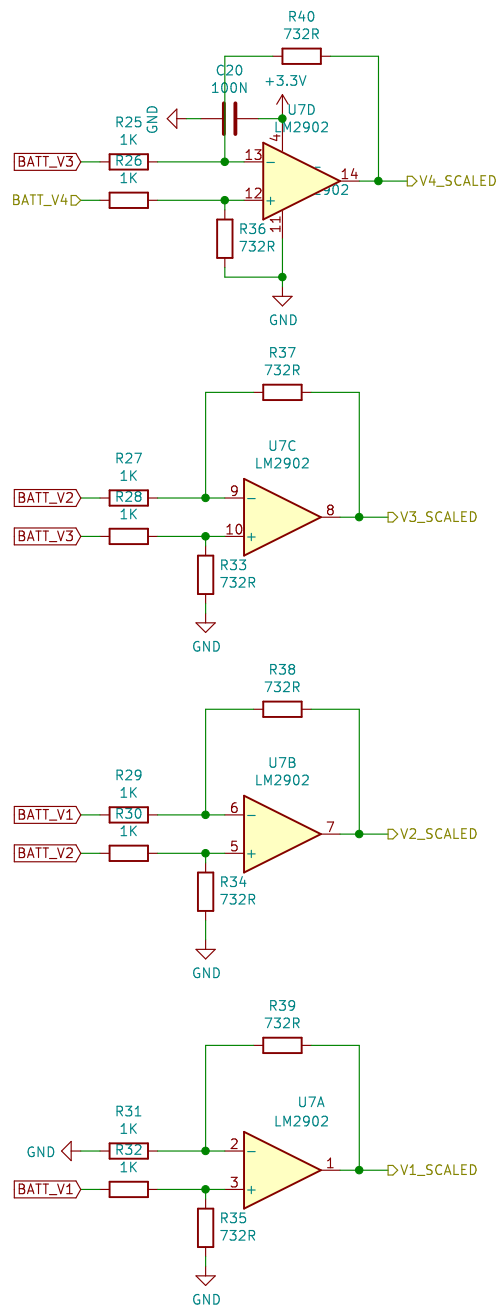
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Rev:

Id: 5/8



Sheet: /Battery Pack/
File: Battery_Pack.sch

Title:

Size: A4

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Id: 6/8

