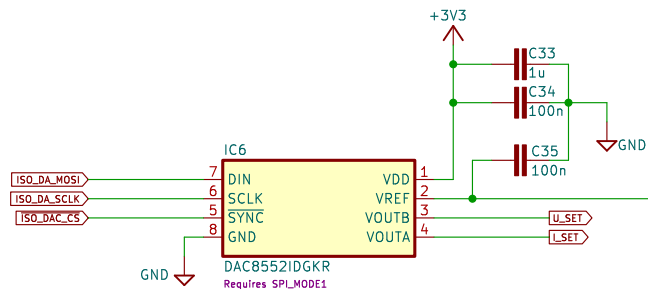
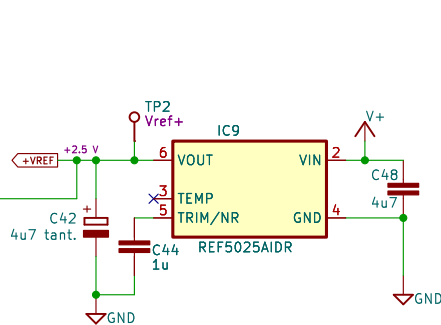

Id: 1/8



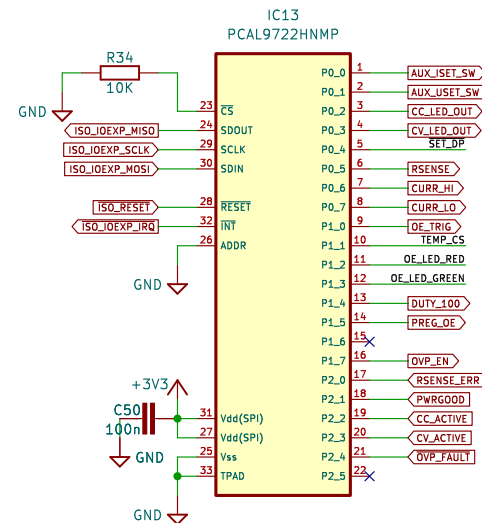
16-bit DAC (set voltage and current)



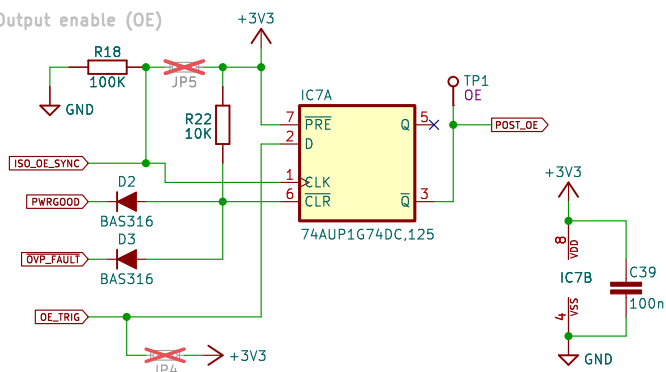
Voltage reference



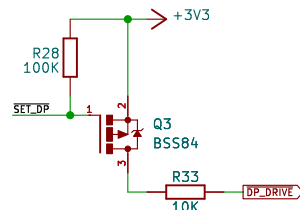
SPI 22-bit I/O Expander



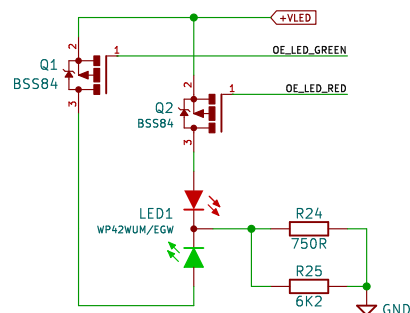
Output enable (OE)



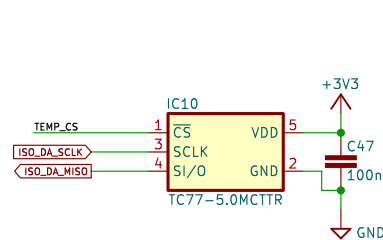
Down-programmer



OE indicator



SPI Temperature sensor



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Sheet: /DAC, OE, Vref, IOEXP, Temp/

File: DAC_Vref_IOEXP_Temp.kicad_sch

Title: EEZ DIB DCP405+ power module

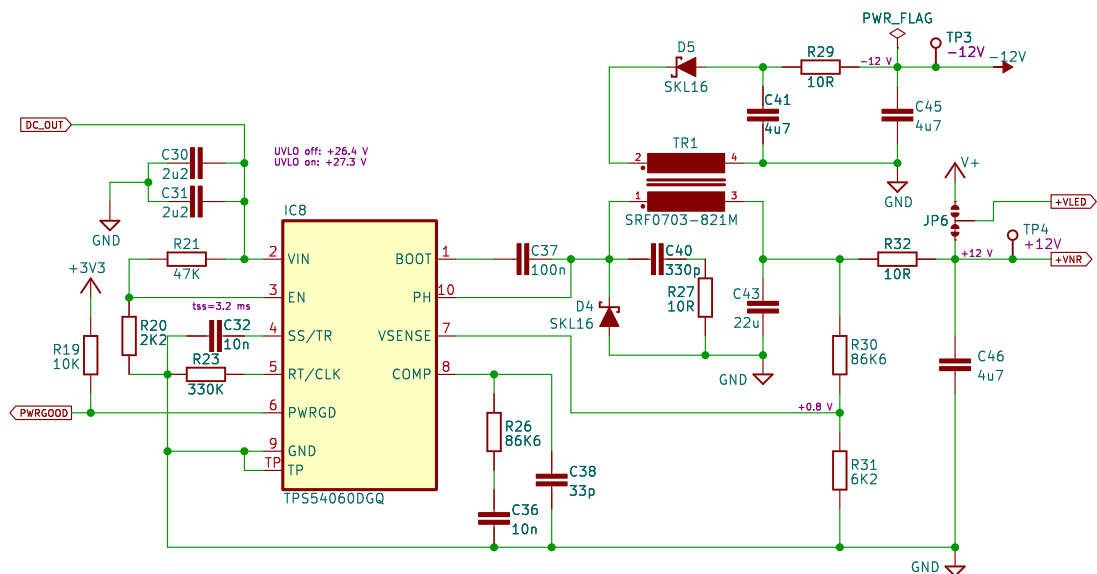
Size: A4 Date: 2025-12-05

KiCad E.D.A. 9.0.6

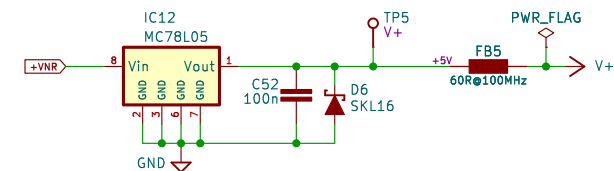
Rev: r4B3

Id: 3/8

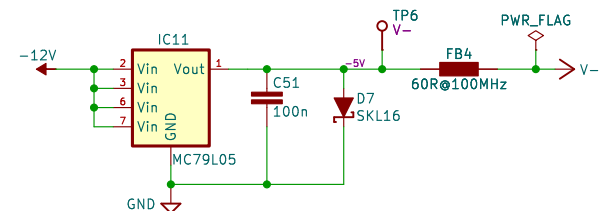
Bias power supply



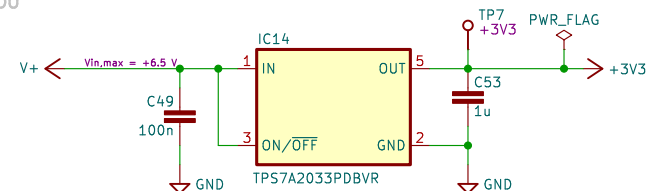
+5V LDO



-5V LDO



+3V3 LDO



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Sheet: /Bias power/

File: Bias_power.kicad_sch

Title: EEZ DIB DCP405+ power module

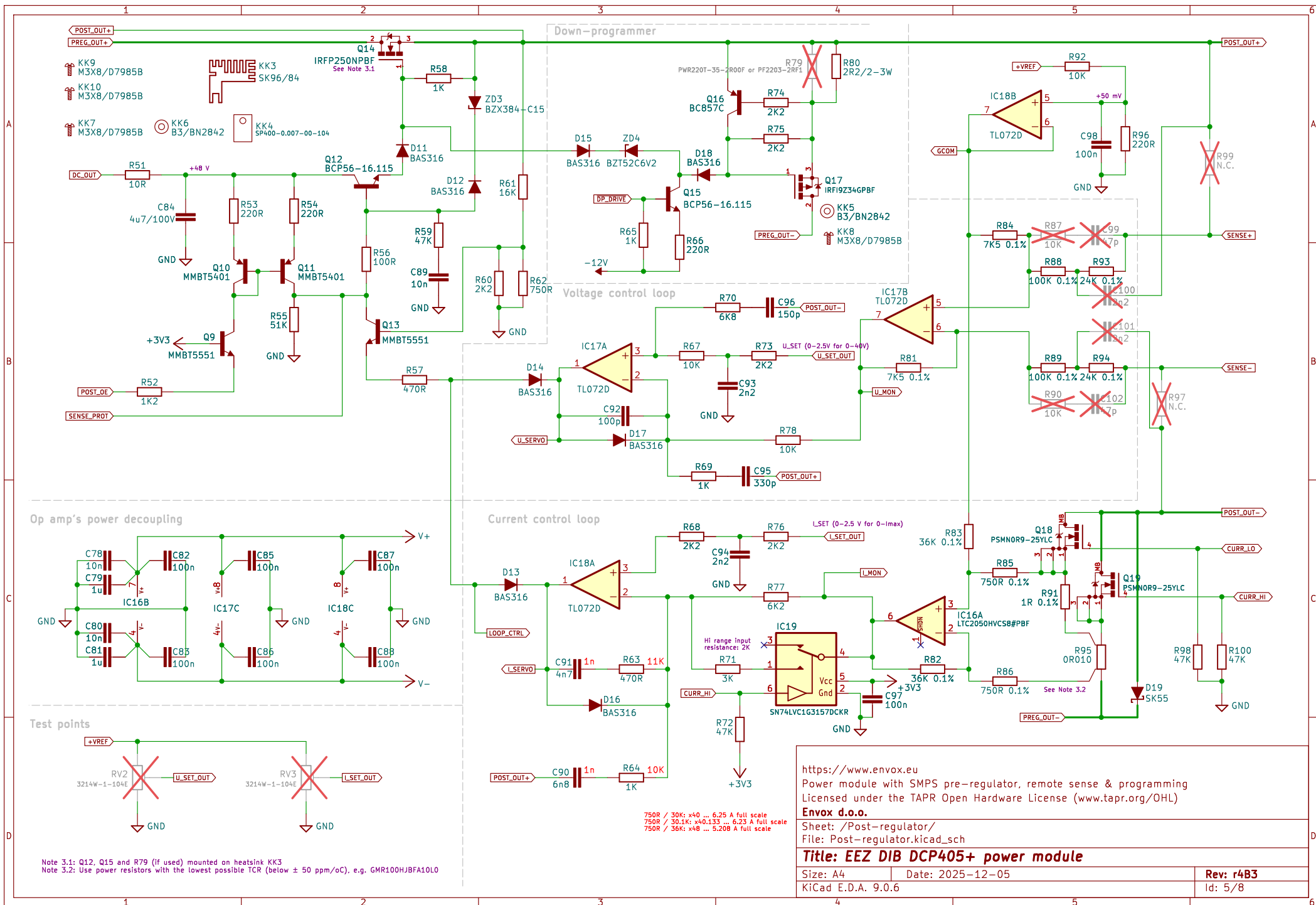
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Date: 2025-12-05

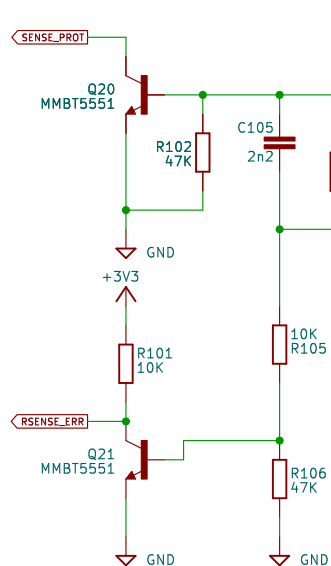
Rev: r4B3

KiCad E.D.A. 9.0.6

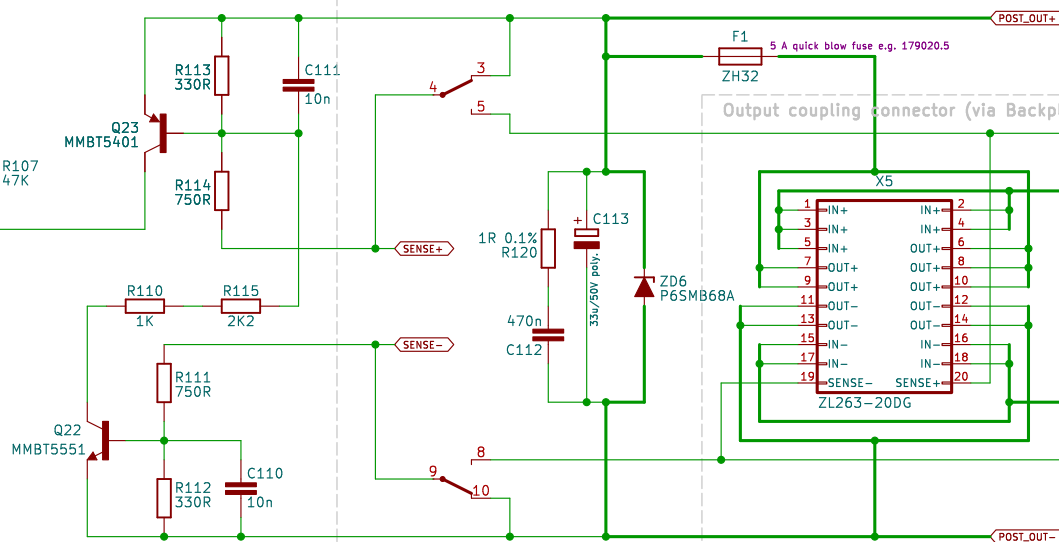
Id: 3/8



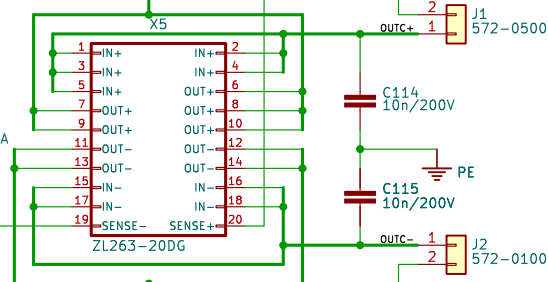
Remote sense reverse polarity detection



Power output section



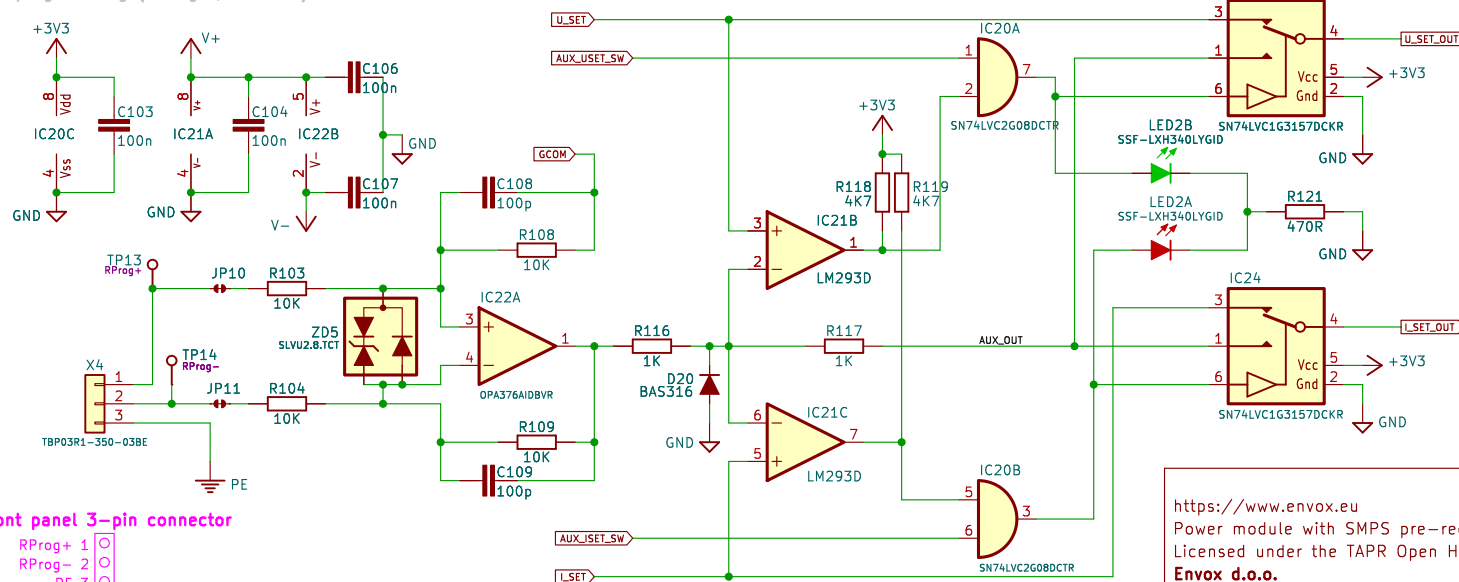
Output coupling connector (via Backplane PCB)



20-pin DIB 2.0 power socket

OUTC+ 1	2 OUTC+
OUTC+ 3	4 OUTC+
OUTC+ 5	6 POST_OUT+
POST_OUT+ 7	8 POST_OUT+
POST_OUT+ 9	10 POST_OUT+
POST_OUT- 11	12 POST_OUT-
POST_OUT- 13	14 POST_OUT-
POST_OUT- 15	16 OUTC-
OUTC- 17	18 OUTC-
SENSE- 19	20 SENSE+

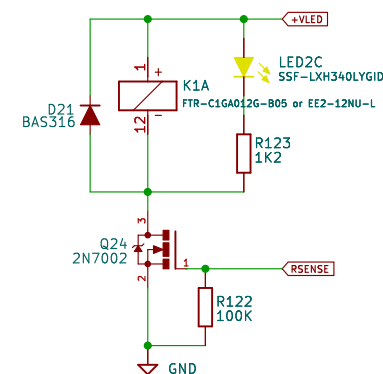
Remote programming (Voltage / Current)



Front panel 3-pin connector

RProg+ 1	2
RProg- 2	3
PE 3	4

Remote sense selection



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Sheet: /Rsense protection, power output, Rprog/

File: Rsense_protection_power_output.kicad_sch

Title: EEZ DIB DCP405+ power module

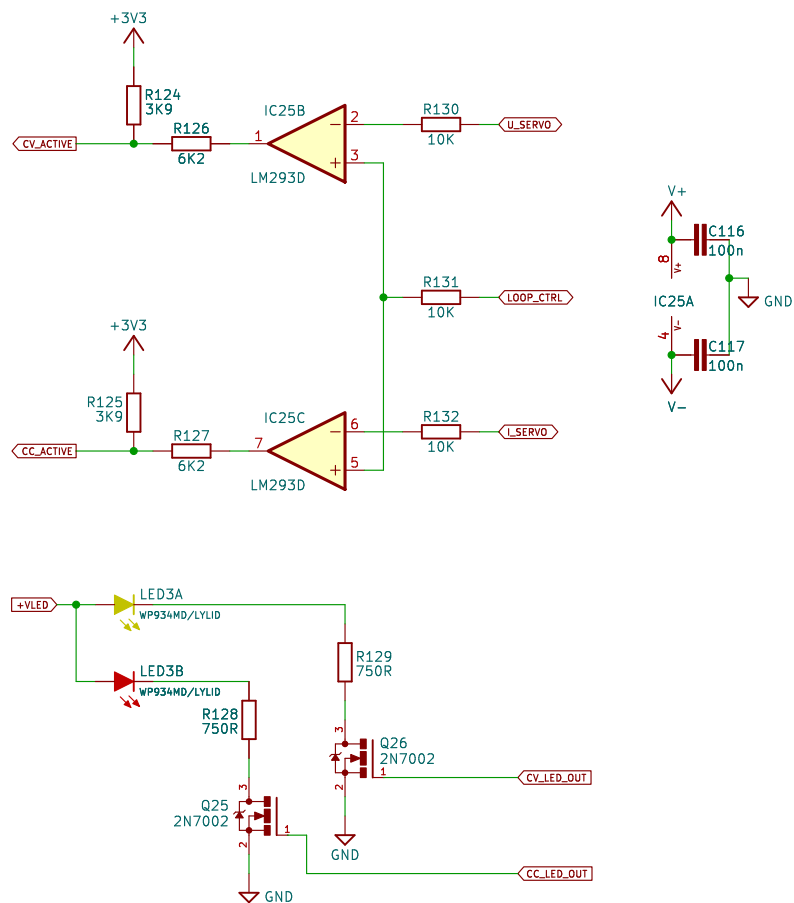
Size: A4 Date: 2025-12-05

KiCad E.D.A. 9.0.6

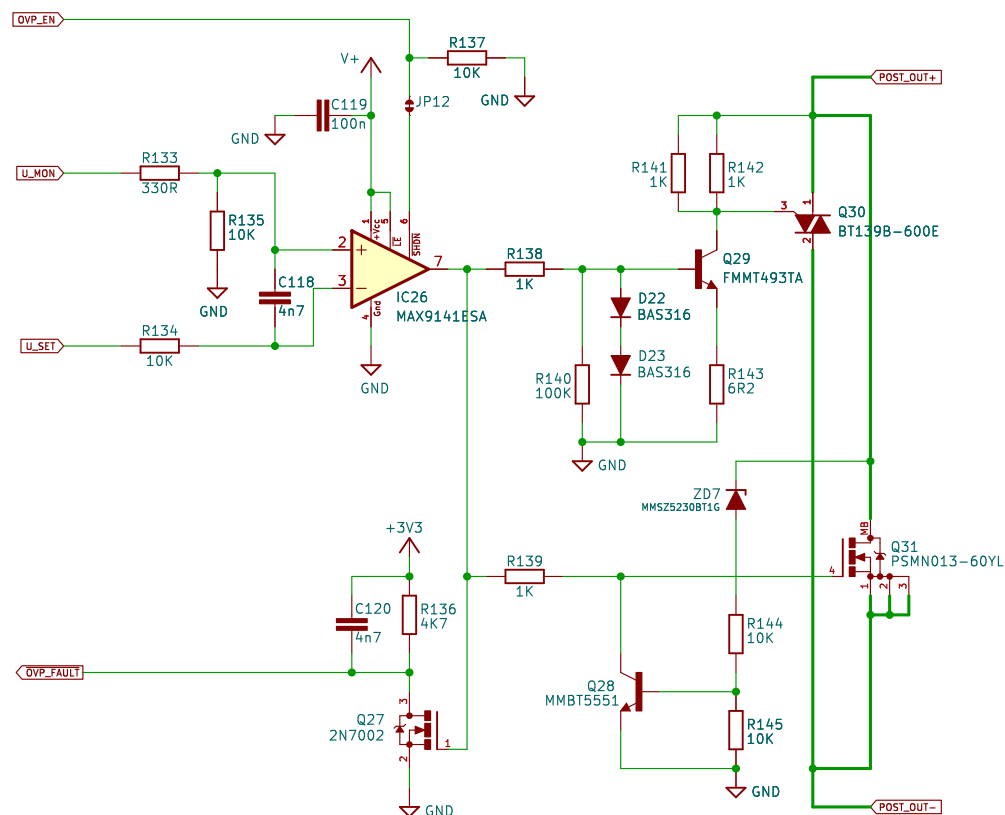
Rev: r4B3

Id: 6/8

Constant Voltage (CV) and Constant Current (CC) mode detection and indication



Over-voltage protection (OVP)



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Sheet: /Mode detection, OVP/

File: CC_CV_OVP.kicad_sch

Title: EEZ DIB DCP405+ power module

Size: A4

Date: 2025-12-05

Rev: r4B3

KiCad E.D.A. 9.0.6

Id: 7/8