
File: DIB_EEPROM_ADC_MCU.kicad_sch

File: DAC_Vref_IOEXP_Temp.kicad_sch

File: Power_pre-regulator.kicad_sch

File: Bias_power.kicad_sch

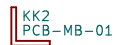
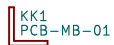
File: Post-regulator.kicad_sch

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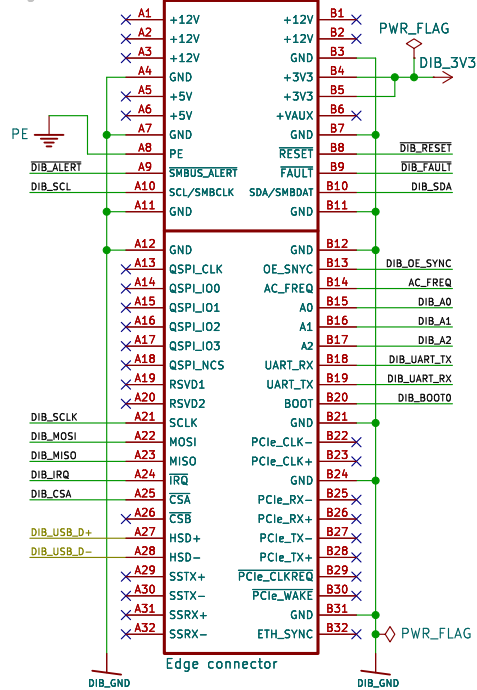
File: Rsense_protection_power_output.kicad_sch

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FILE: CC_CV_OVF.KICAD_SCH
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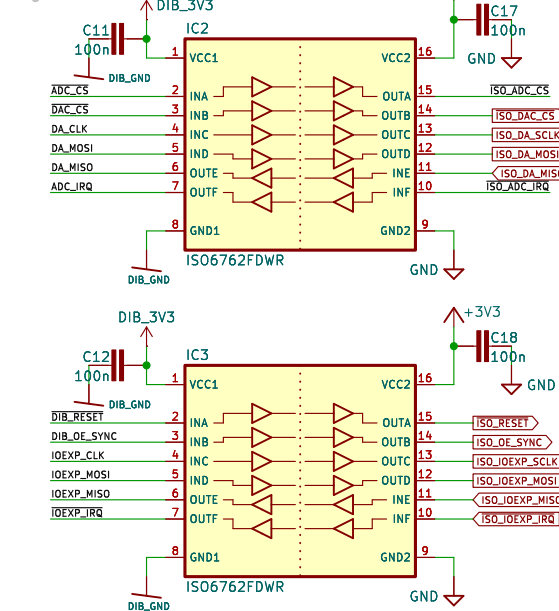
Id: 1/8



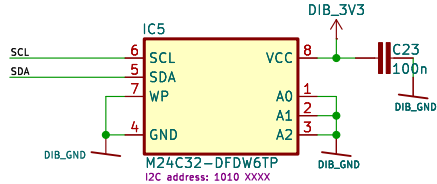
DIB signal connector X1



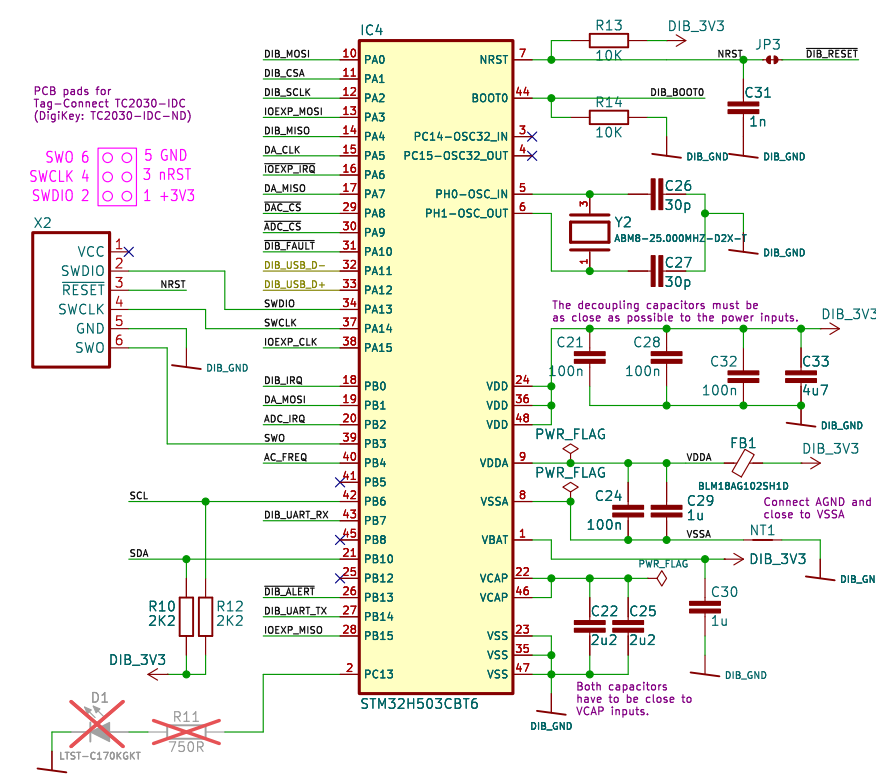
Digital isolators



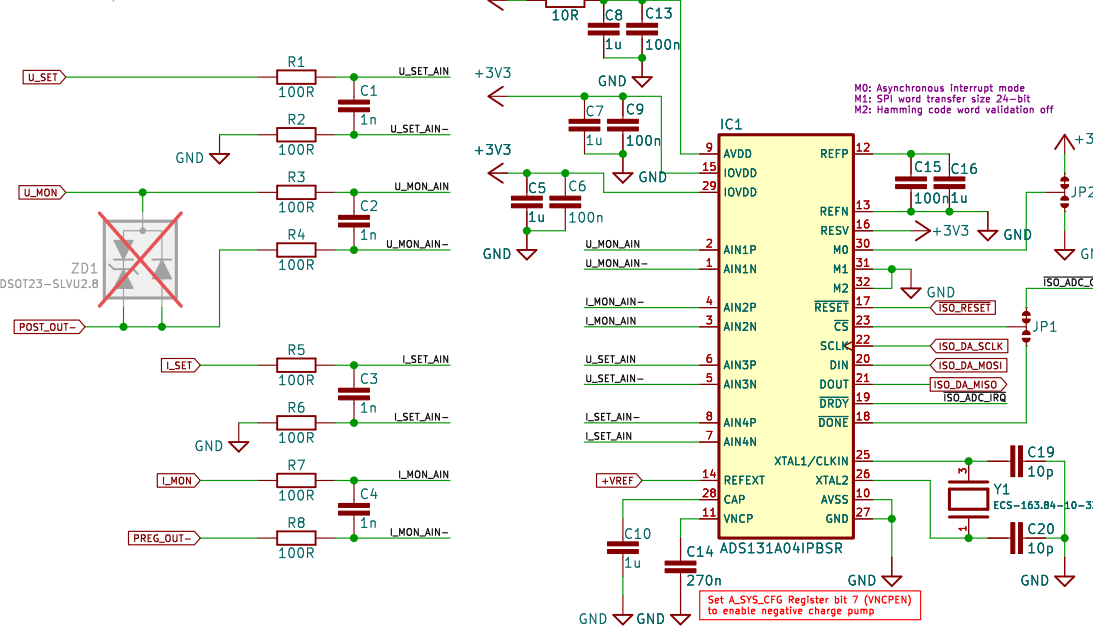
I2C Module ID EEPROM



32-bit MCU

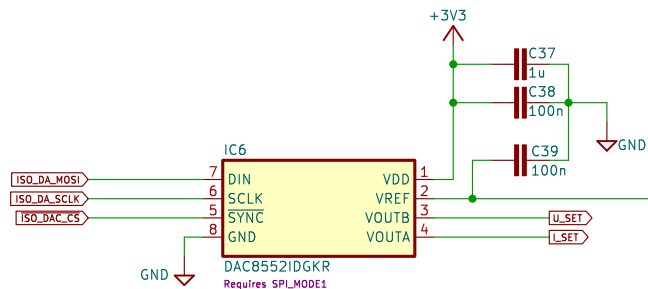


ADC with input RC filters

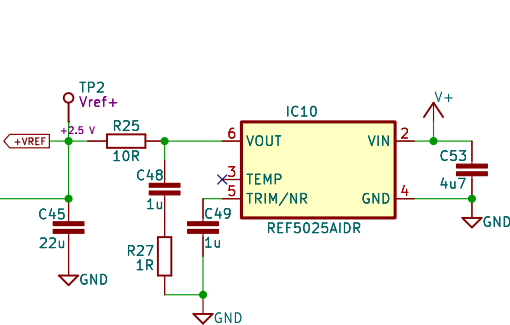


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 Power module with SMPS pre-regulator, remote sense & programming
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Envox d.o.o.
 Sheet: /DIB isolators, EEPROM, ADC, MCU/
 File: DIB_EEPROM_ADC_MCU.kicad_sch
Title: EEZ DIB DCP405+ power module
 Size: A4 Date: 2025-12-07
 KiCad E.D.A. 9.0.6
 Rev: r4B4
 Id: 2/8

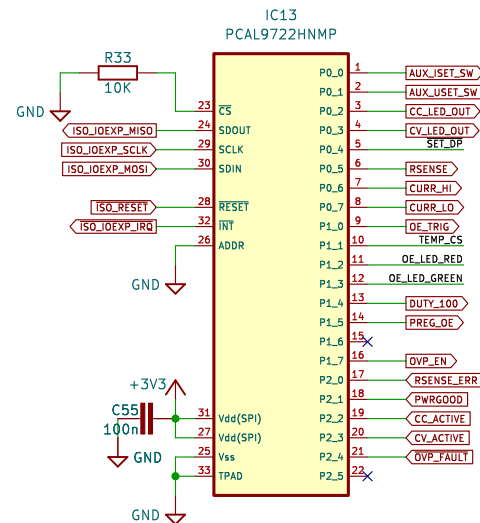
16-bit DAC (set voltage and current)



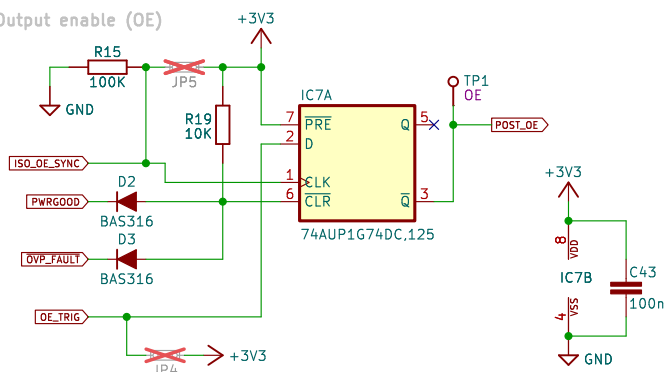
Voltage reference



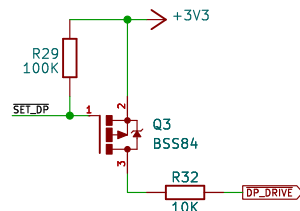
SPI 22-bit I/O Expander



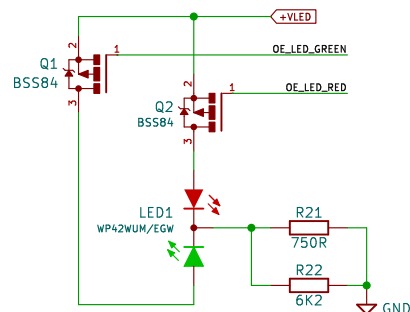
Output enable (OE)



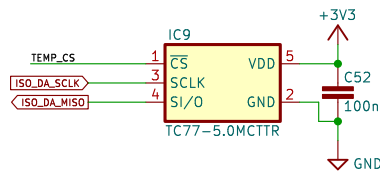
Down-programmer



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

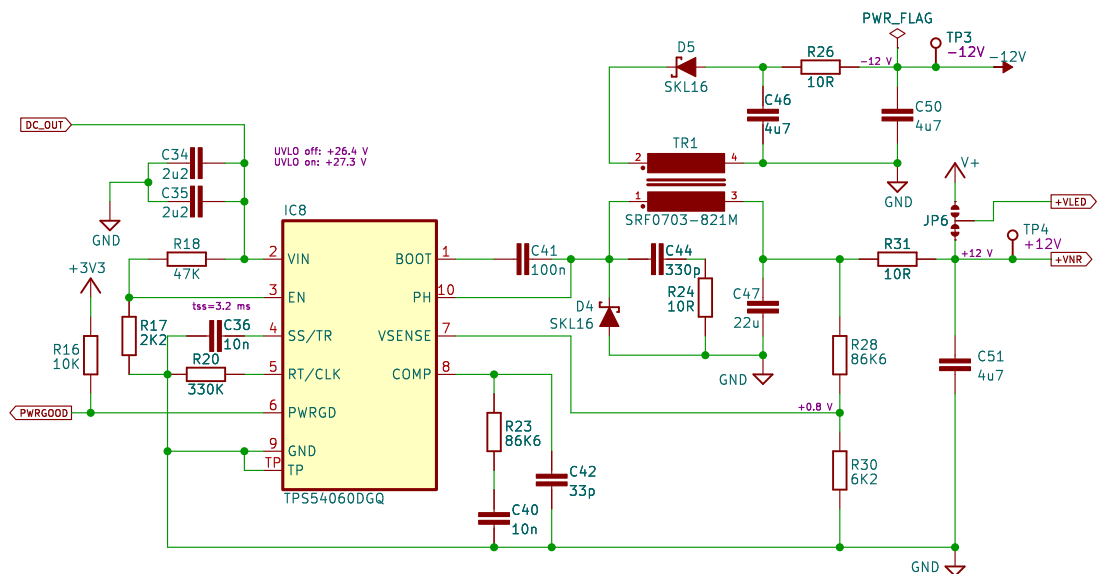
Size: A4 Date: 2025-12-07

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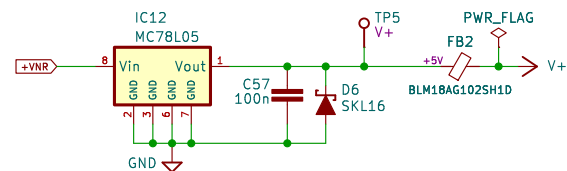
Rev: r4B4

Id: 3/8

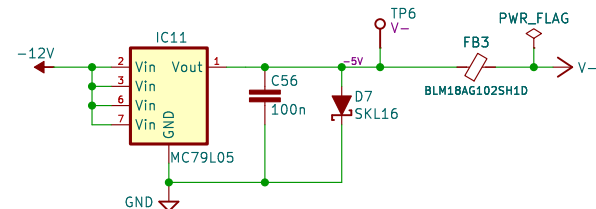
Bias power supply



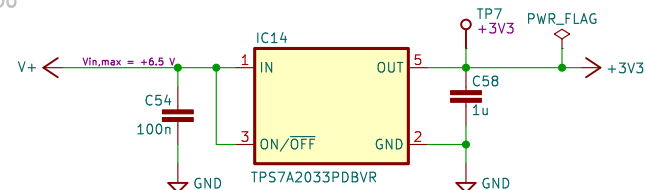
+5V LDO



-5V LDO



+3V3 LDO



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Sheet: /Bias power/

File: Bias_power.kicad_sch

Title: EEZ DIB DCP405+ power module

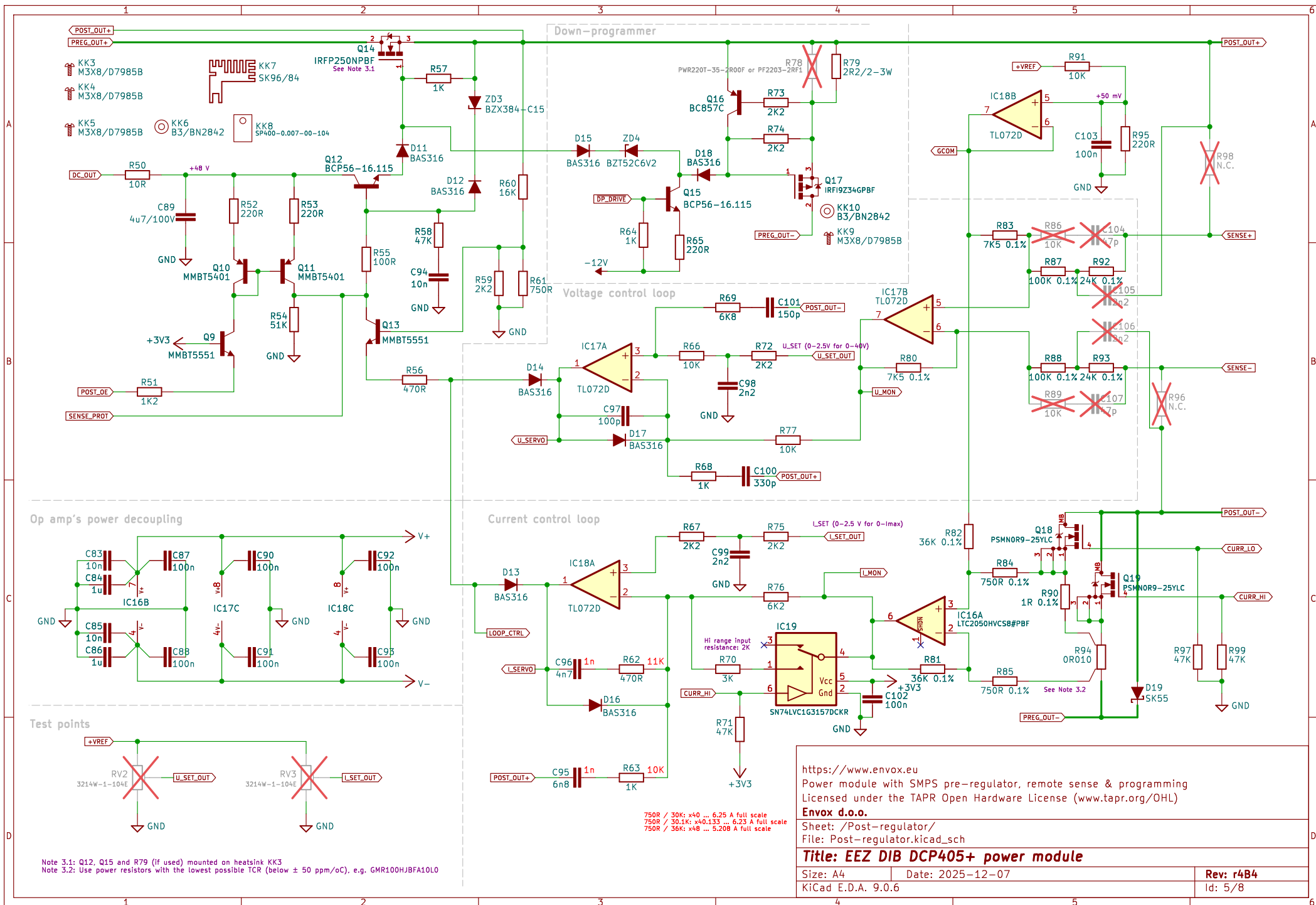
Size: A4

Date: 2025-12-07

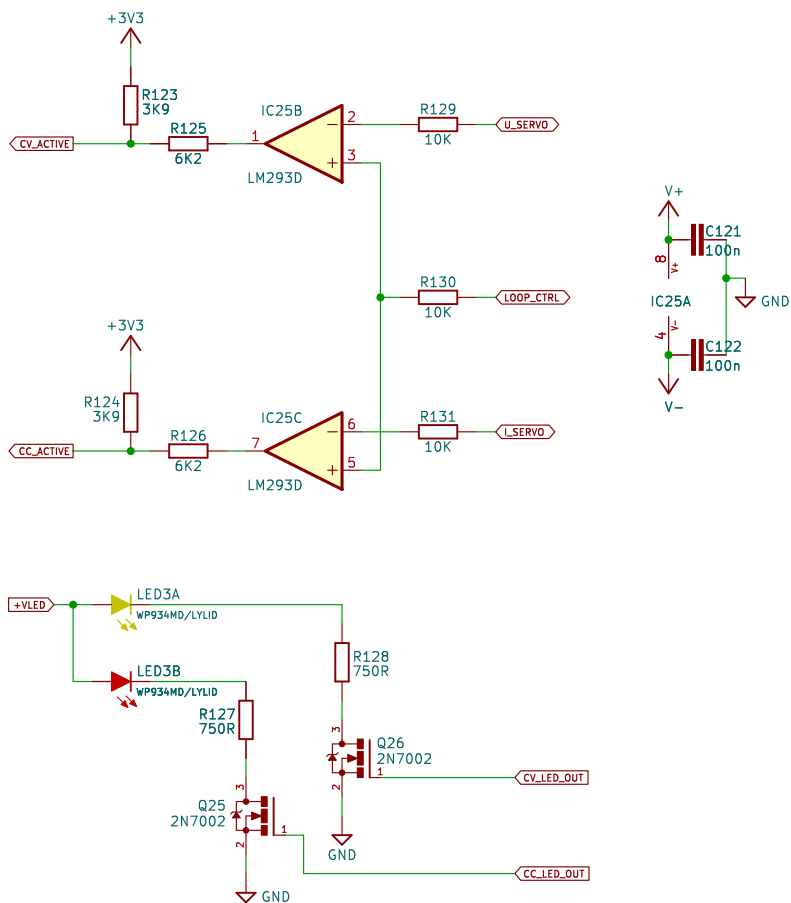
Rev: r4B4

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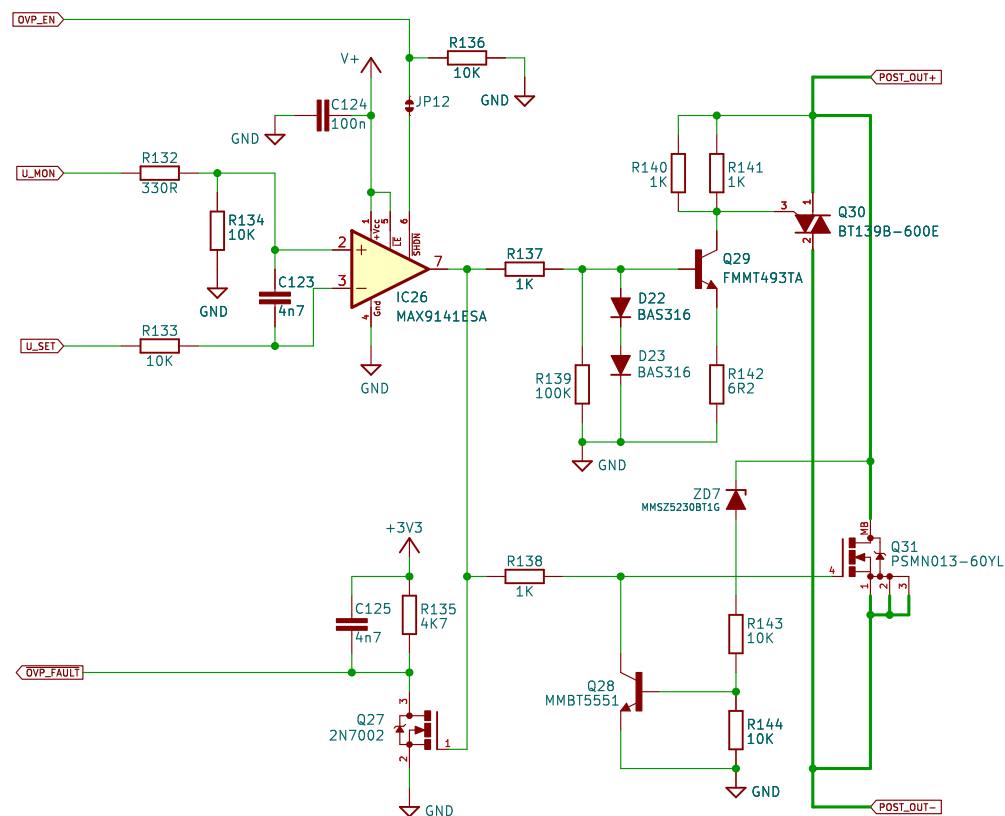
Id: 3/8



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: 2025-12-07

Rev: r4B4

KiCad E.D.A. 9.0.6

Id: 7/8