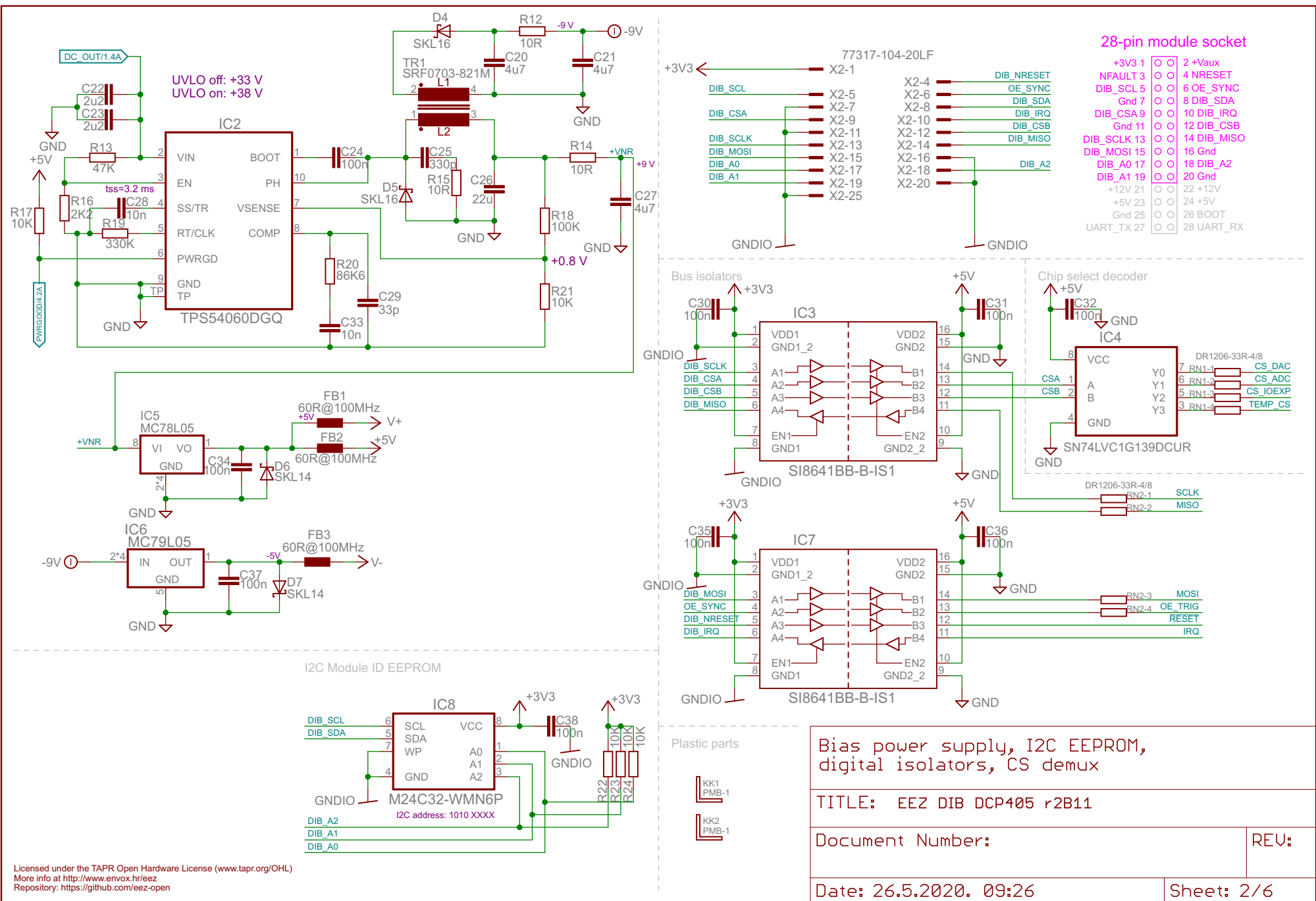




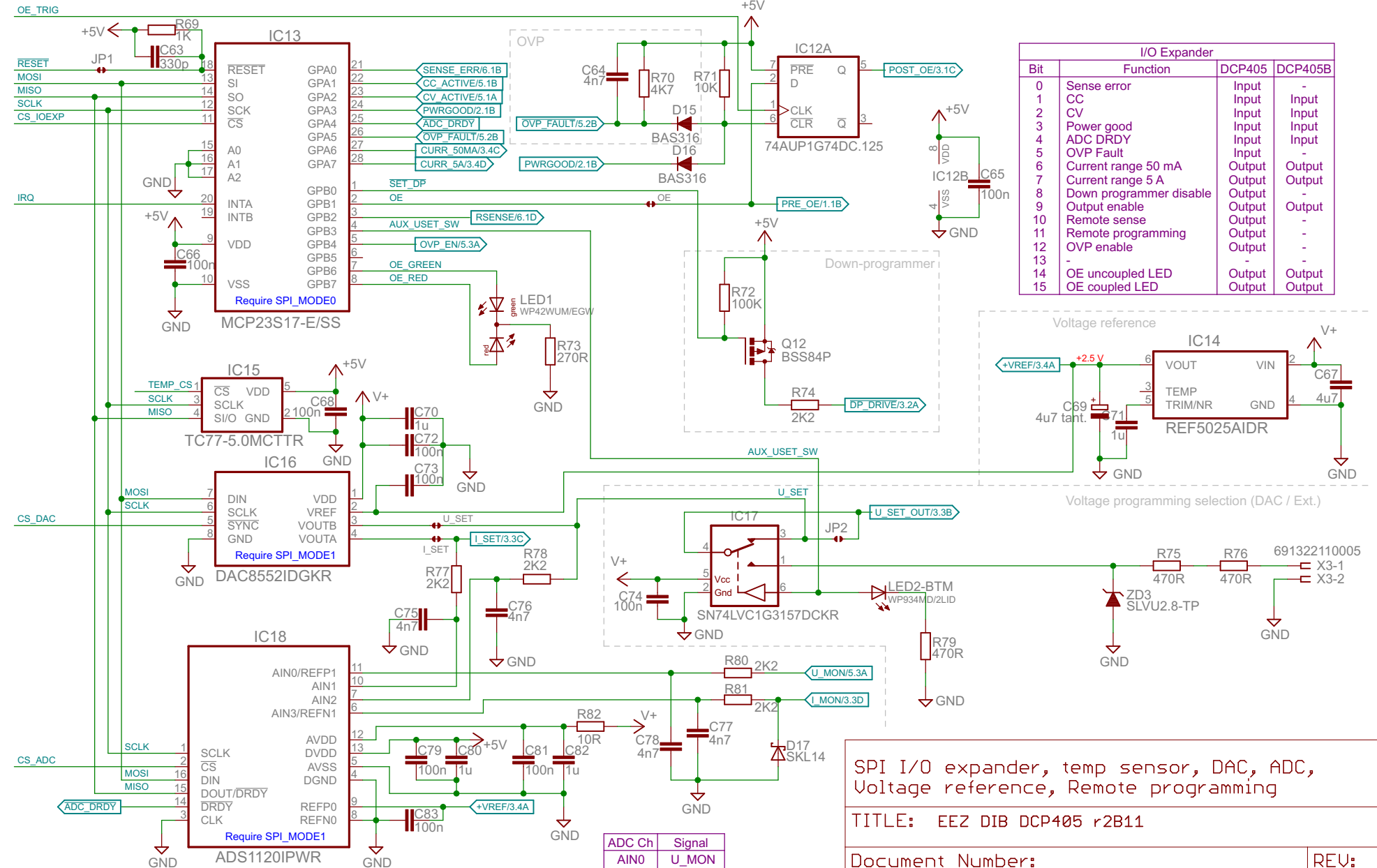
Sheet: 1/6

Repository: <https://github.com/eez-open>





# Digital control (SPI)



I/O Expander			
Bit	Function	DCP405	DCP405B
0	Sense error	Input	-
1	CC	Input	Input
2	CV	Input	Input
3	Power good	Input	Input
4	ADC DRDY	Input	Input
5	OVP Fault	Input	-
6	Current range 50 mA	Output	Output
7	Current range 5 A	Output	Output
8	Down programmer disable	Output	-
9	Output enable	Output	Output
10	Remote sense	Output	-
11	Remote programming	Output	-
12	OVP enable	Output	-
13	-	-	-
14	OE uncoupled LED	Output	Output
15	OE coupled LED	Output	Output

ADC Ch	Signal
AIN0	U_MON
AIN1	I_SET
AIN2	U_SET
AIN3	I_MON

SPI I/O expander, temp sensor, DAC, ADC, Voltage reference, Remote programming

TITLE: EEZ DIB DCP405 r2B11

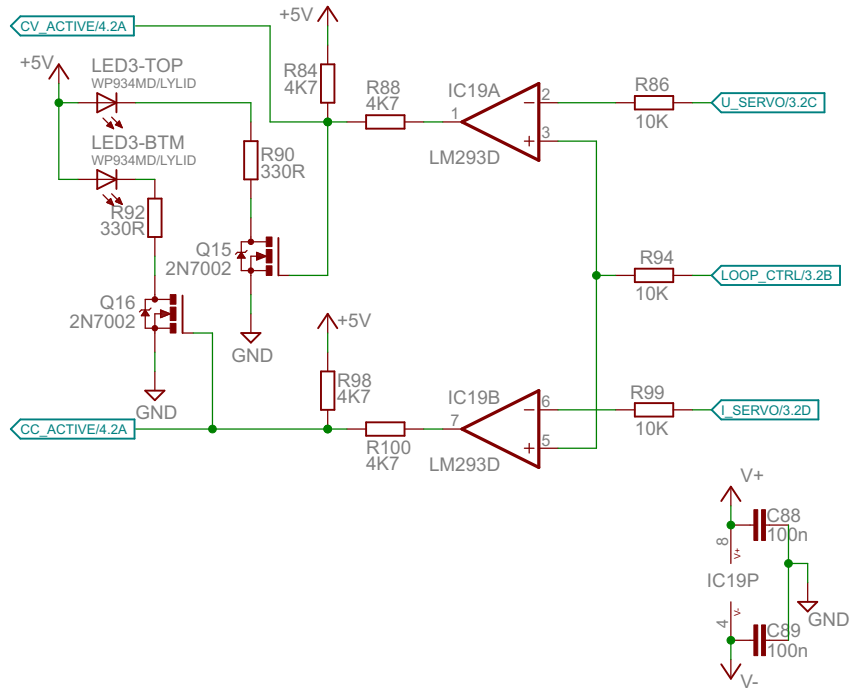
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REV:

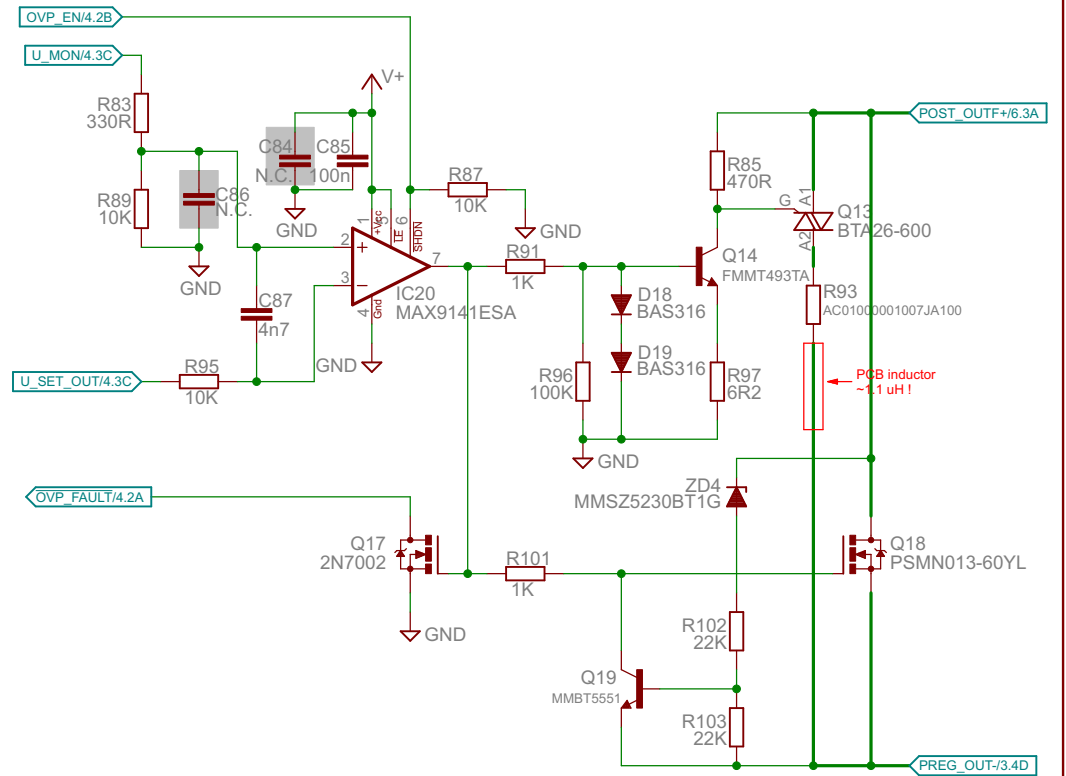
Date: 26.5.2020. 09:26

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



## Over-voltage protection (OVP)



CC/CV mode detection and indication, OVP

TITLE: EEZ DIB DCP405 r2B11

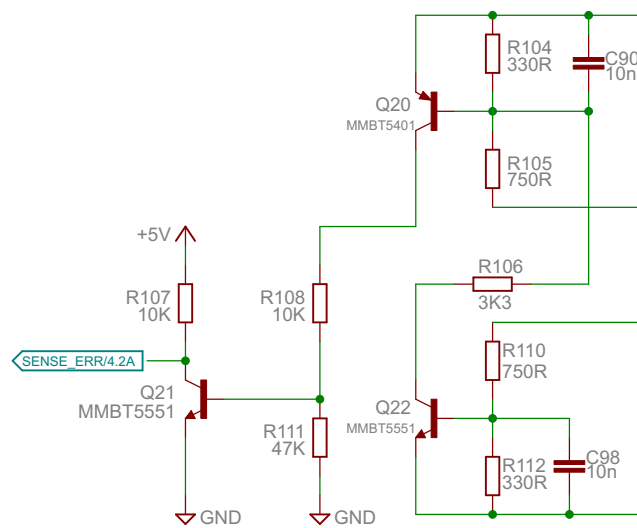
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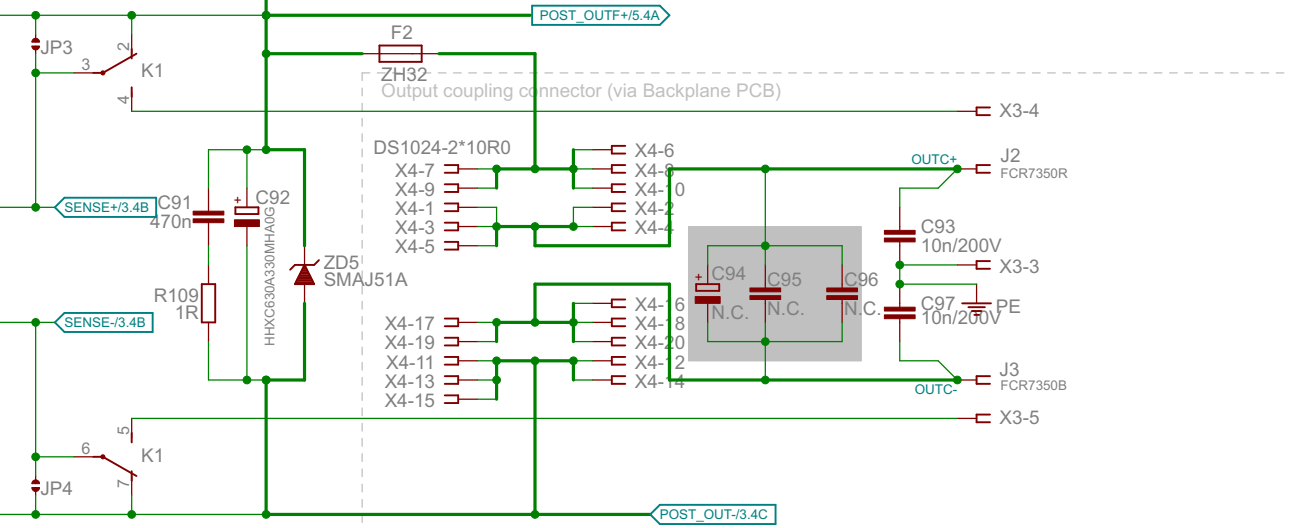
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Sheet: 5/6

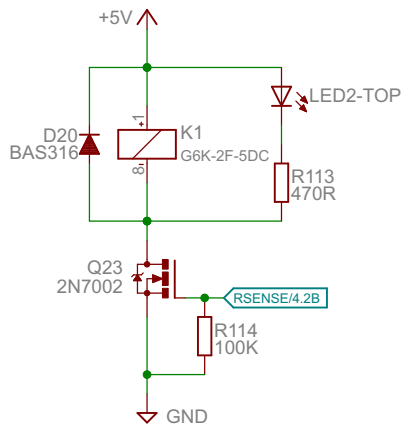
# Remote sense reverse polarity detection



# Power output section



# Remote sense selection



# 20-pin power socket

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

Rsense polarity protection  
Output coupling, Rsense relay

TITLE: EEZ DIB DCP405 r2B11

Document Number:

REV:

Date: 26.5.2020. 09:26

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