

SMPS power pre-regulator with 100% duty cycle

TITLE: EEZ DIB DCP405 r2B5

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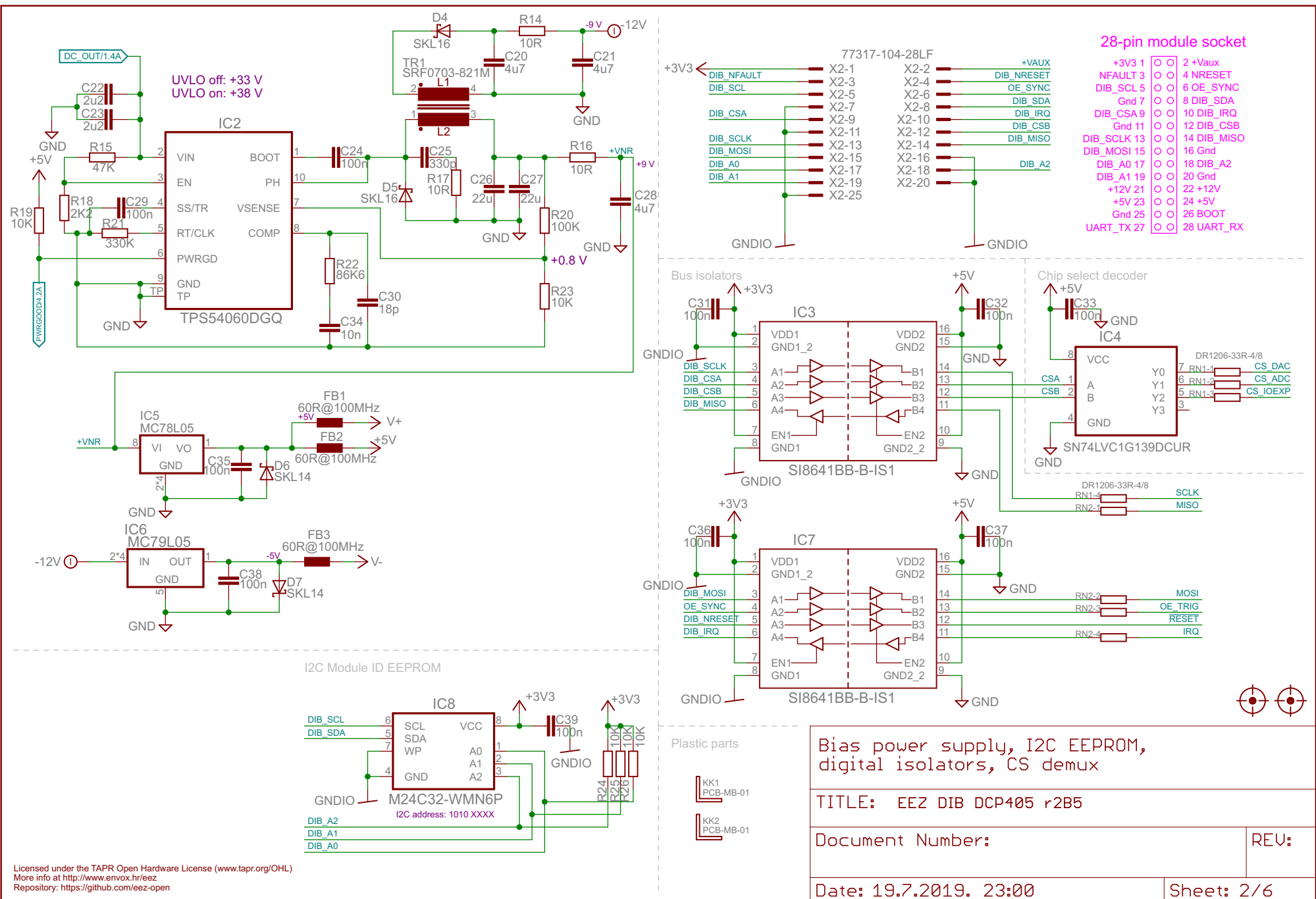
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Date: 19.7.2019. 23:00

Sheet: 1/6

Note 1.1: Possible alternative AU1RFR5305, IFR5305, SPD30P06P or other with similar or lower input capacitance
Note 1.2: WE 7447709330, WE 7443551331, Coilcraft MSS1210-333, Coilcraft XAL1510-333, Vishay IHLP4040DZER470M11, etc.

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More info at <http://www.envox.hr/eez>
Repository: <https://github.com/eez-open>



Bias power supply, I2C EEPROM,
digital isolators, CS demux

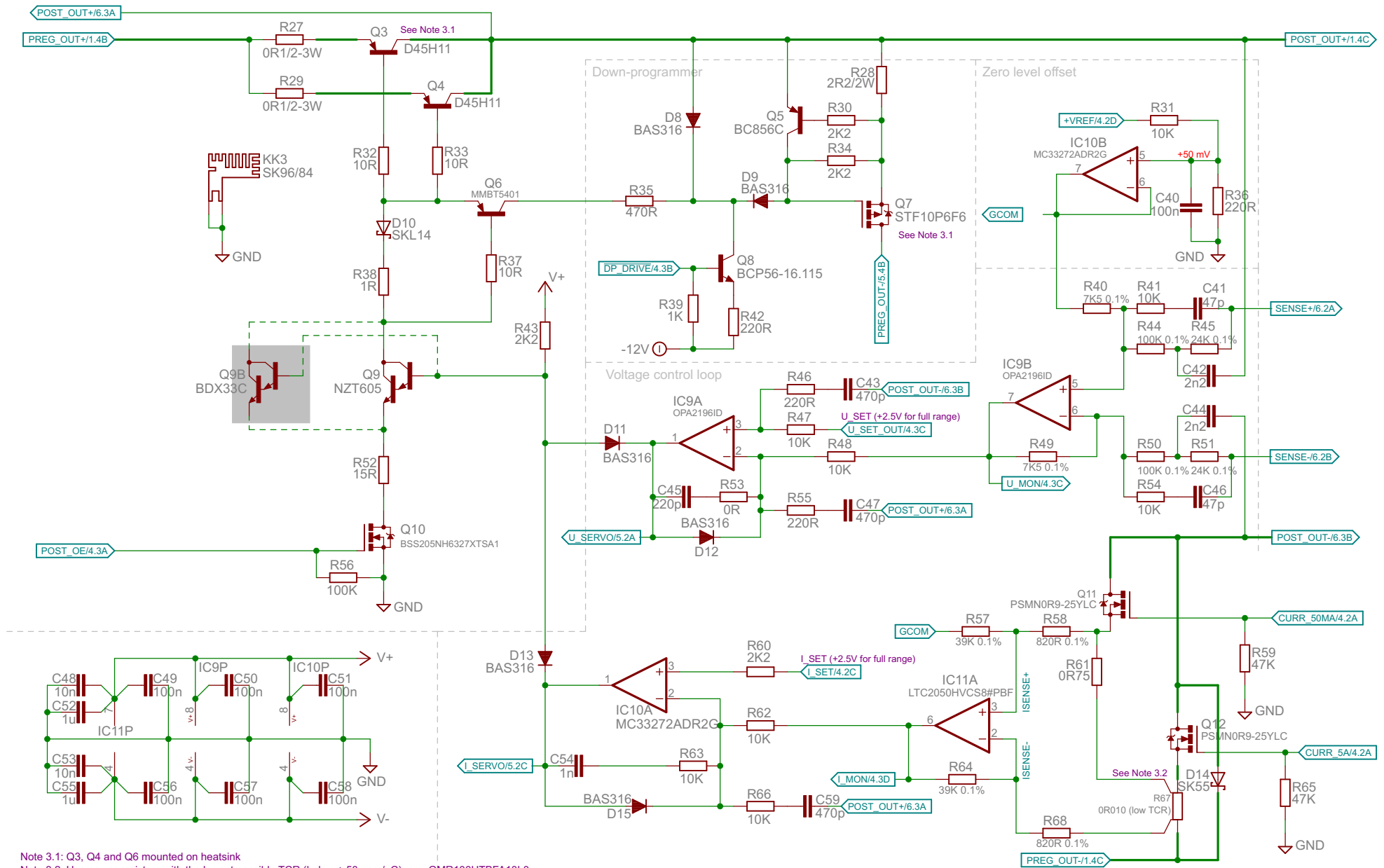
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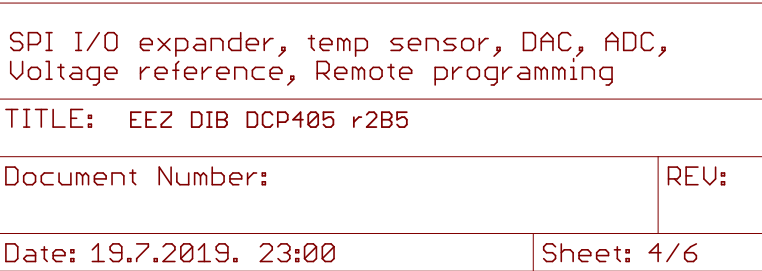
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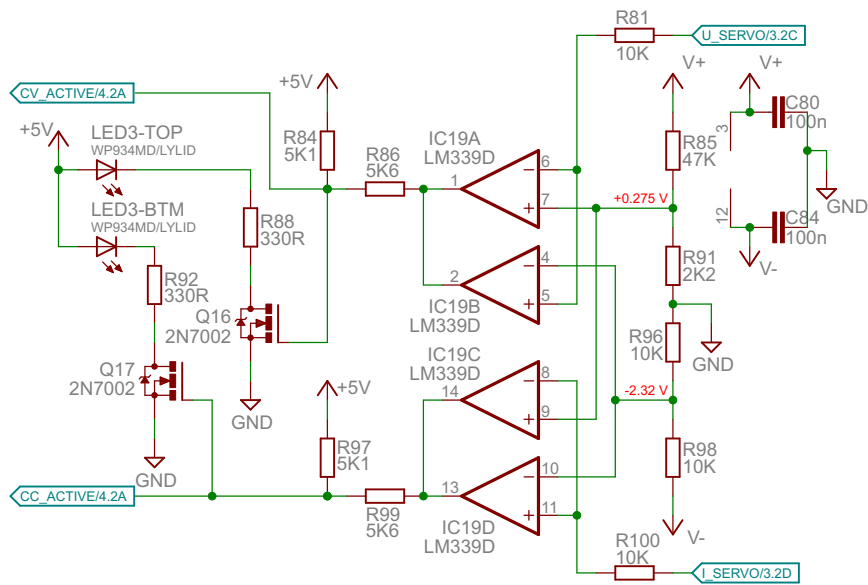
Date: 19.7.2019. 23:00

Sheet: 2/6

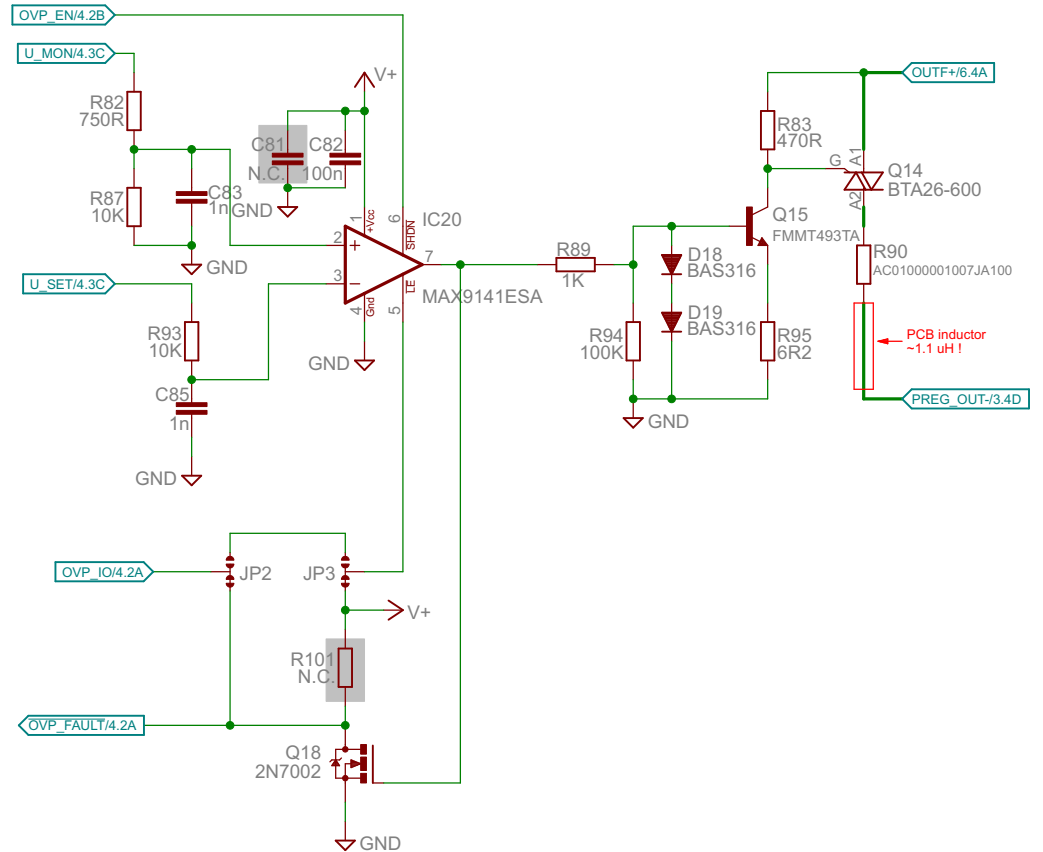




Constant Voltage (CV) and Constant Current (CC) mode detection and indication



Over-voltage protection (OVP)



CC/CV mode detection and indication, OVP

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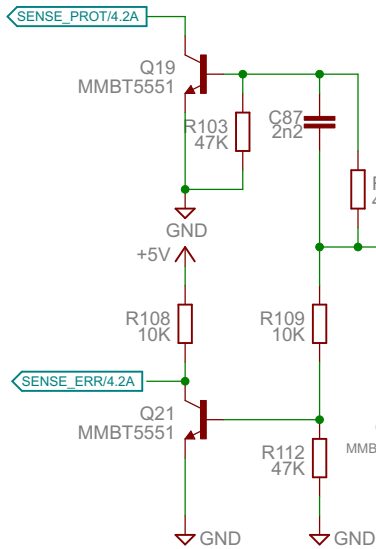
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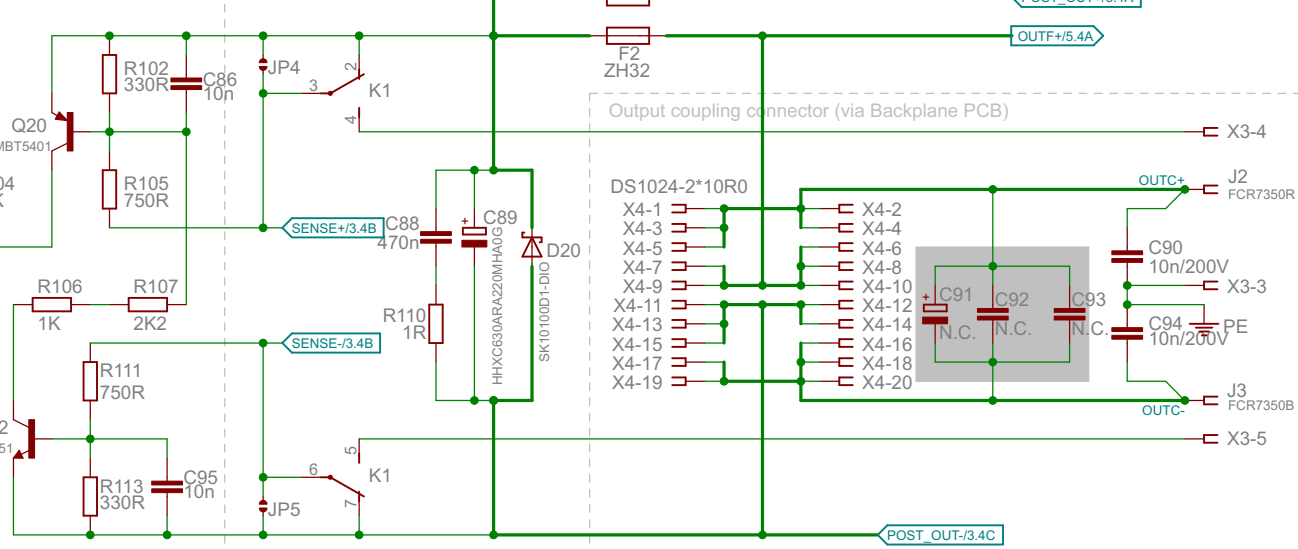
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Sheet: 5/6

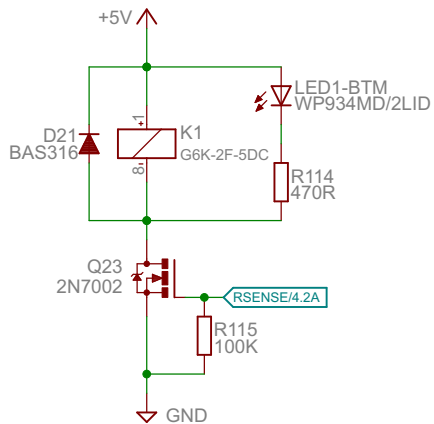
Remote sense reverse polarity detection



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

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Sheet: 6/6