

SMPS power pre-regulator with 100% duty cycle

TITLE: EEZ DIB DCP405 r2B6

Document Number:

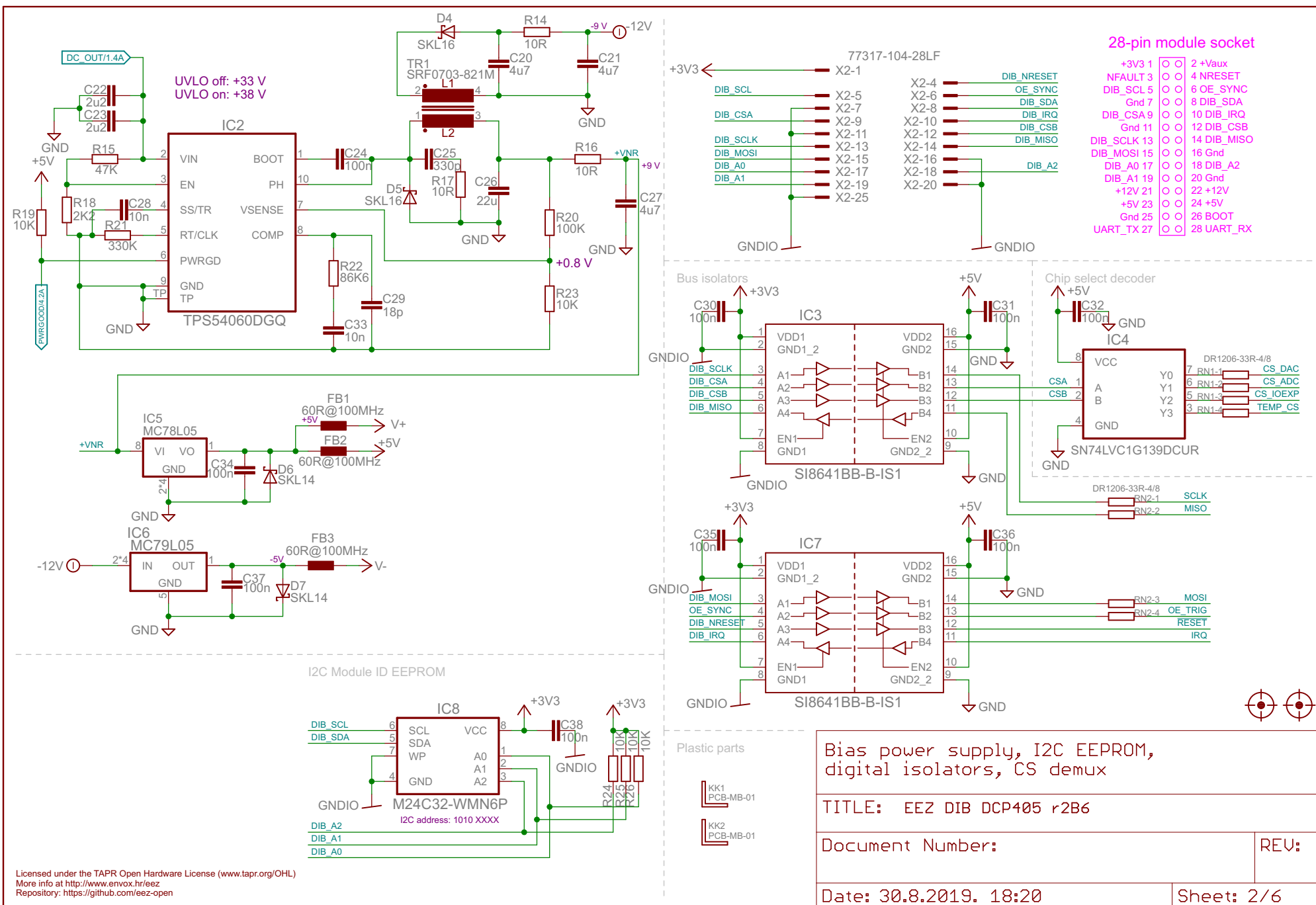
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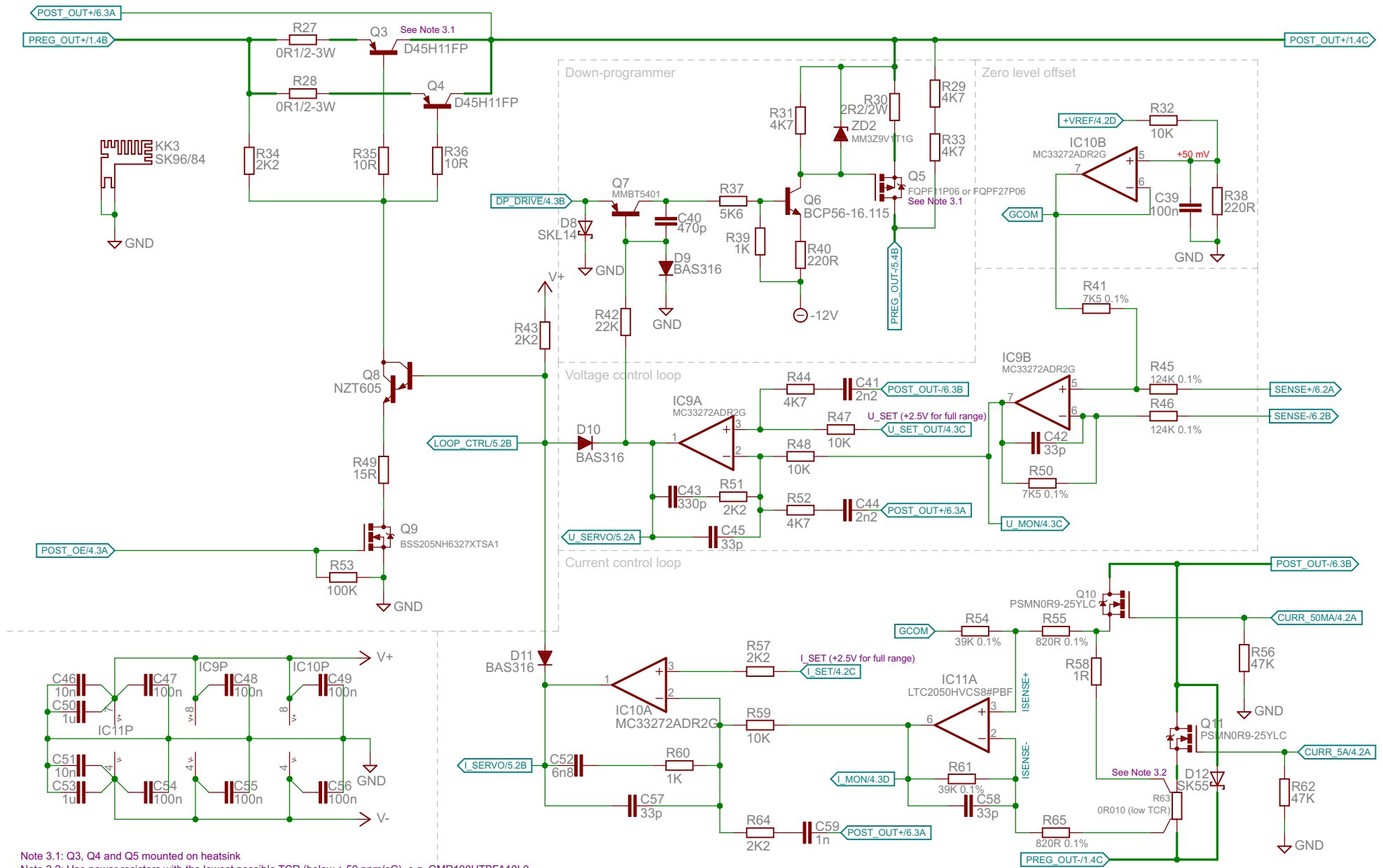
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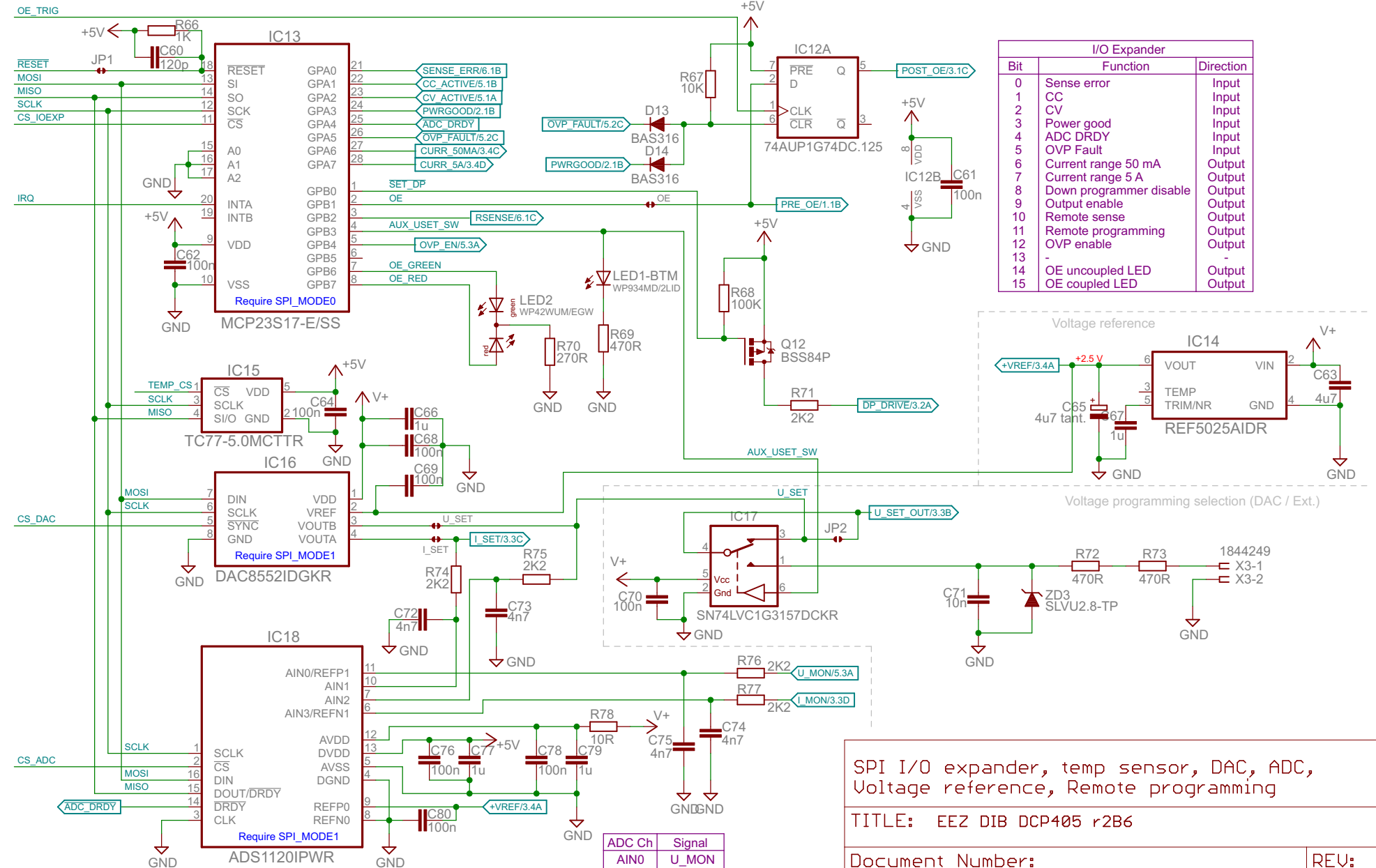
Note 1.1: Possible alternative AU1RFR5305, IFR5305, SPD30P06P or other with similar or lower input capacitance
 Note 1.2: WE 7447709330, WE 7443551331, Coilcraft MSS1210-333, Coilcraft XAL1510-333, Vishay IHL4040DZER470M11, etc.

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





Digital control (SPI)



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

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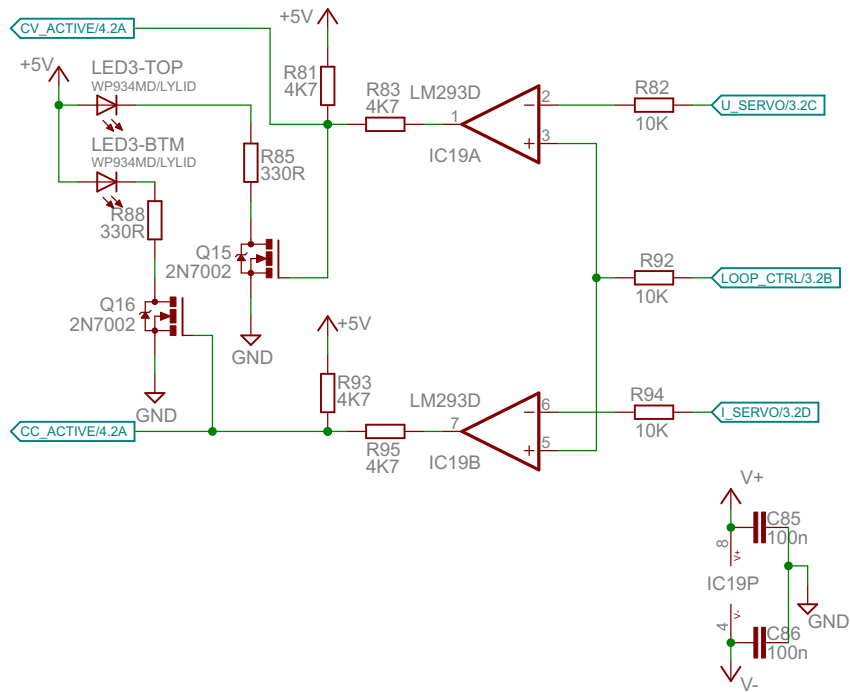
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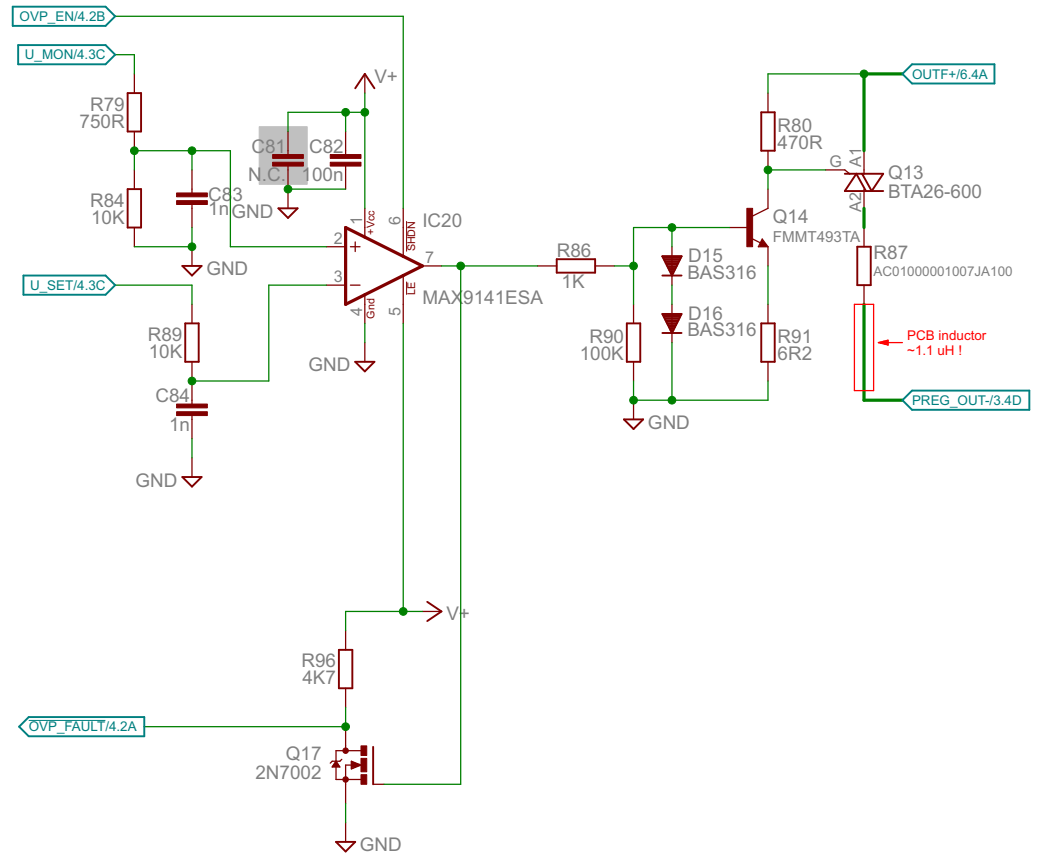
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Constant Voltage (CV) and Constant Current (CC) mode detection and indication



Over-voltage protection (OVP)



CC/CV mode detection and indication, OVP

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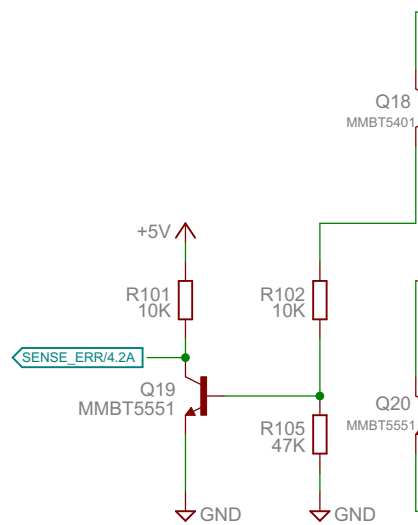
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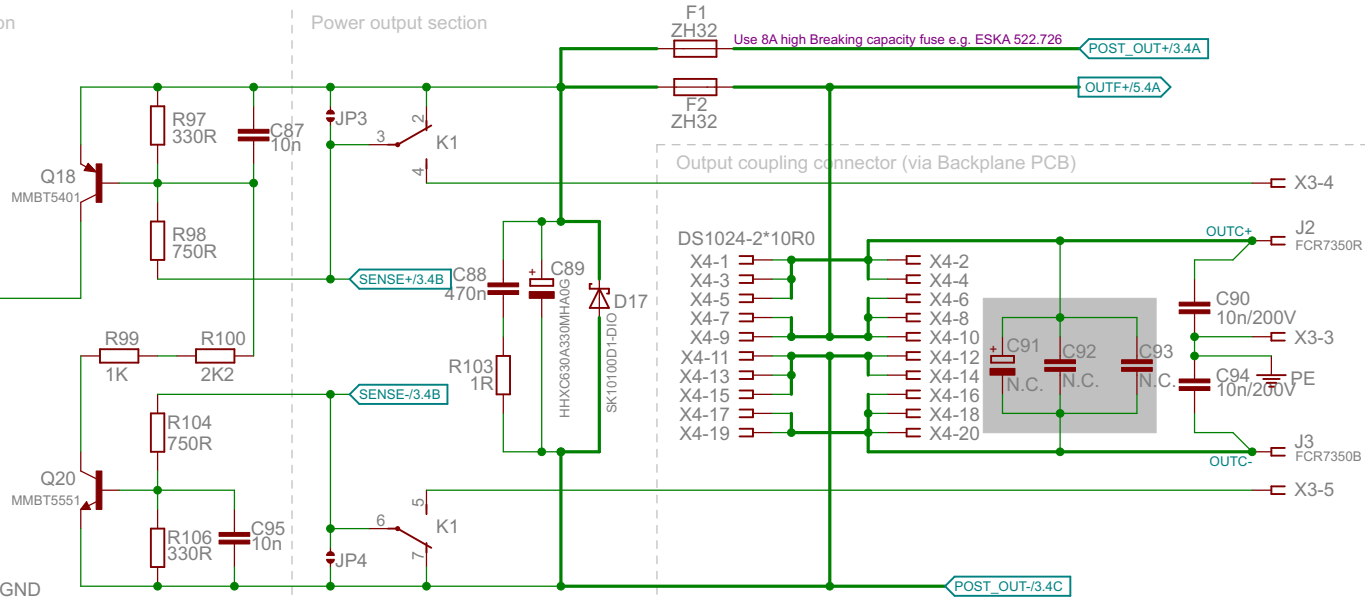
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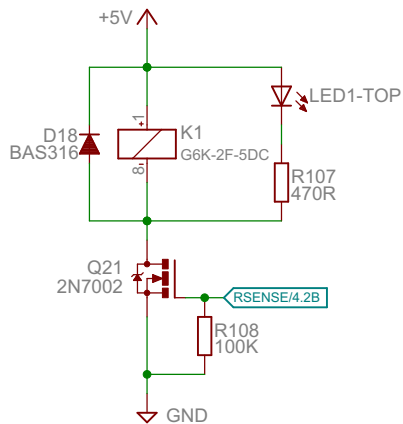
Remote sense reverse polarity detection



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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