

CV/CC control loop, Output enable  
Down-programmer

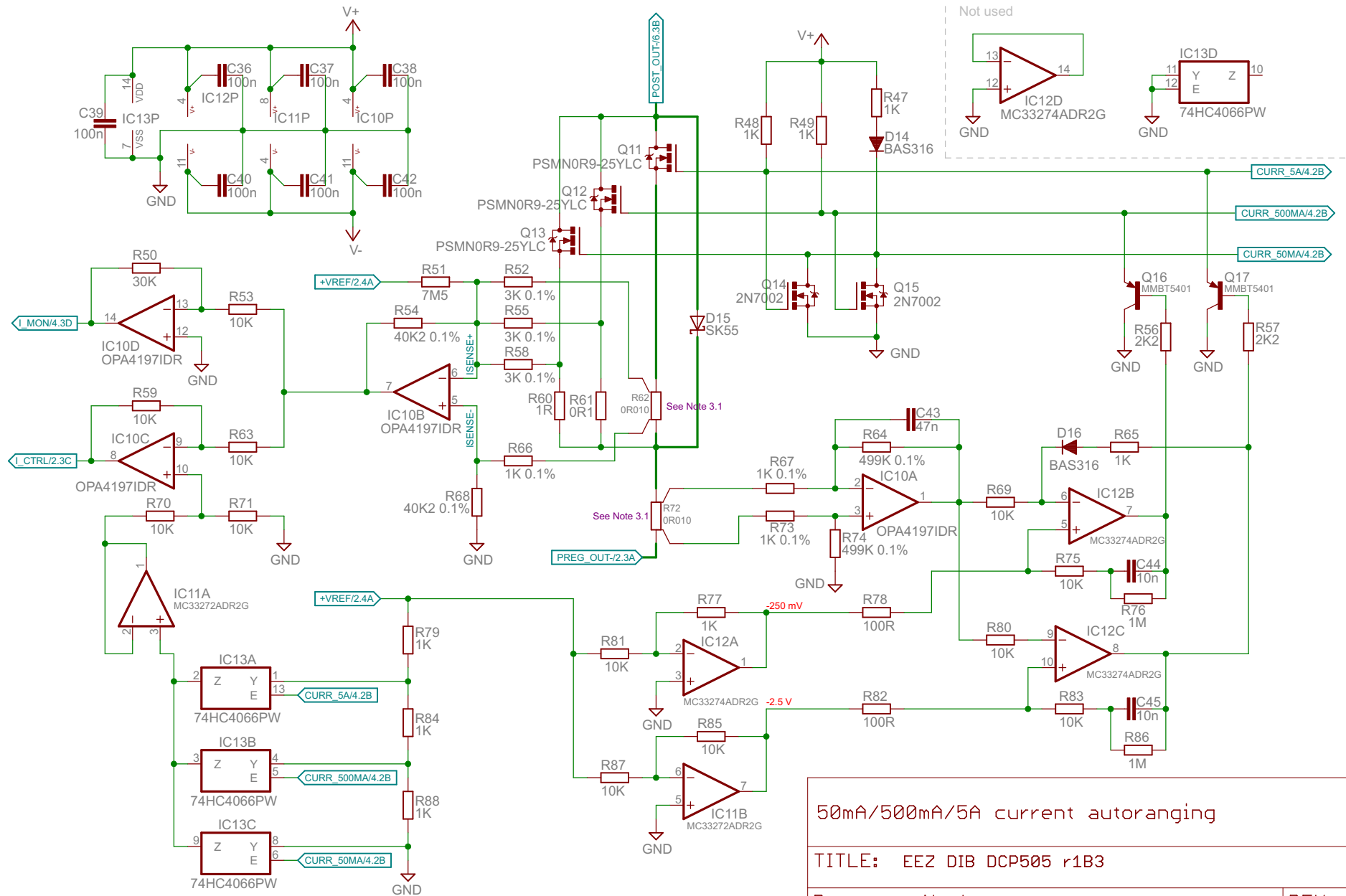
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Note 3.1: Use power resistors with the lowest possible TCR (below  $\pm 50$  ppm/°C), e.g. GMR100HTBFA10L0, CSSH2728FT10L0 or OARS1 - R010FI

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

50mA/500mA/5A current autoranging

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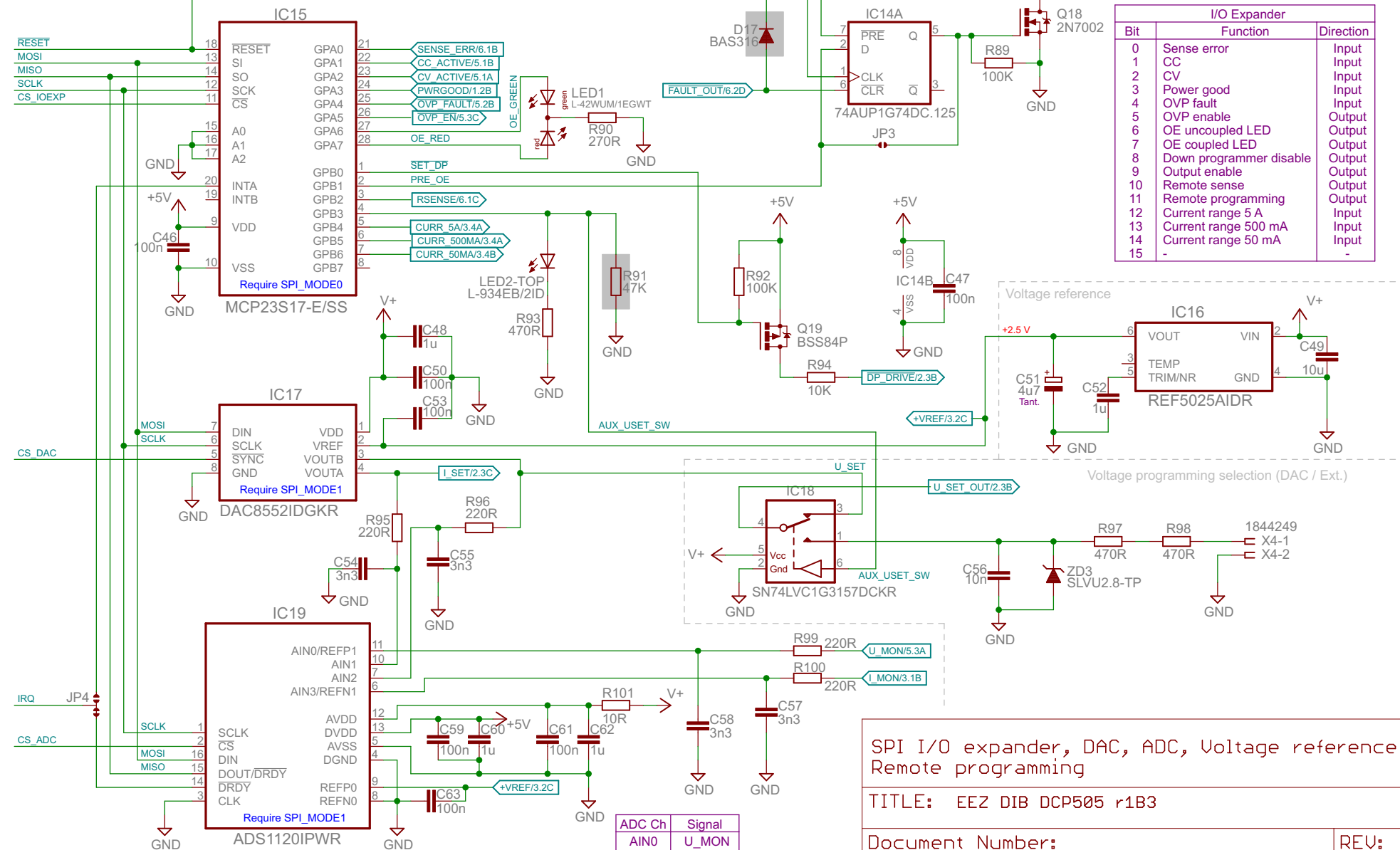
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# Digital control (SPI)

OE\_TRIG



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

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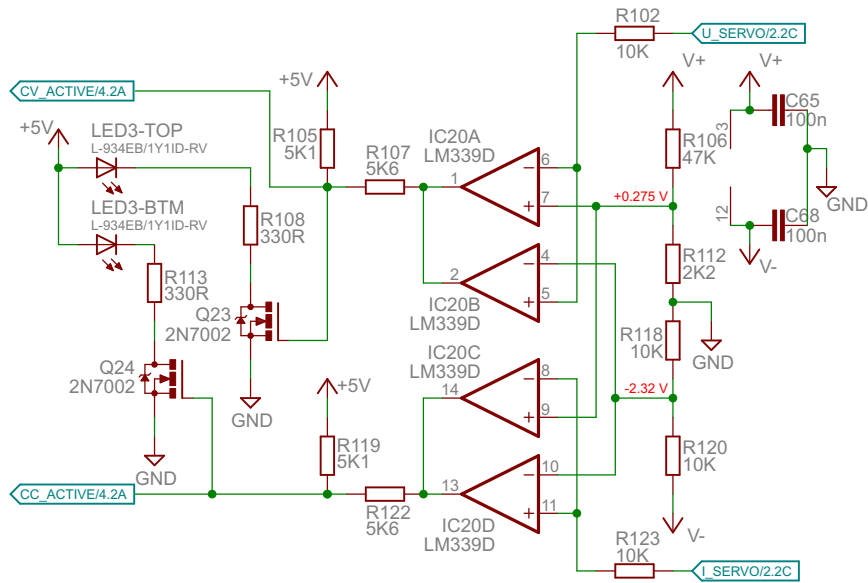
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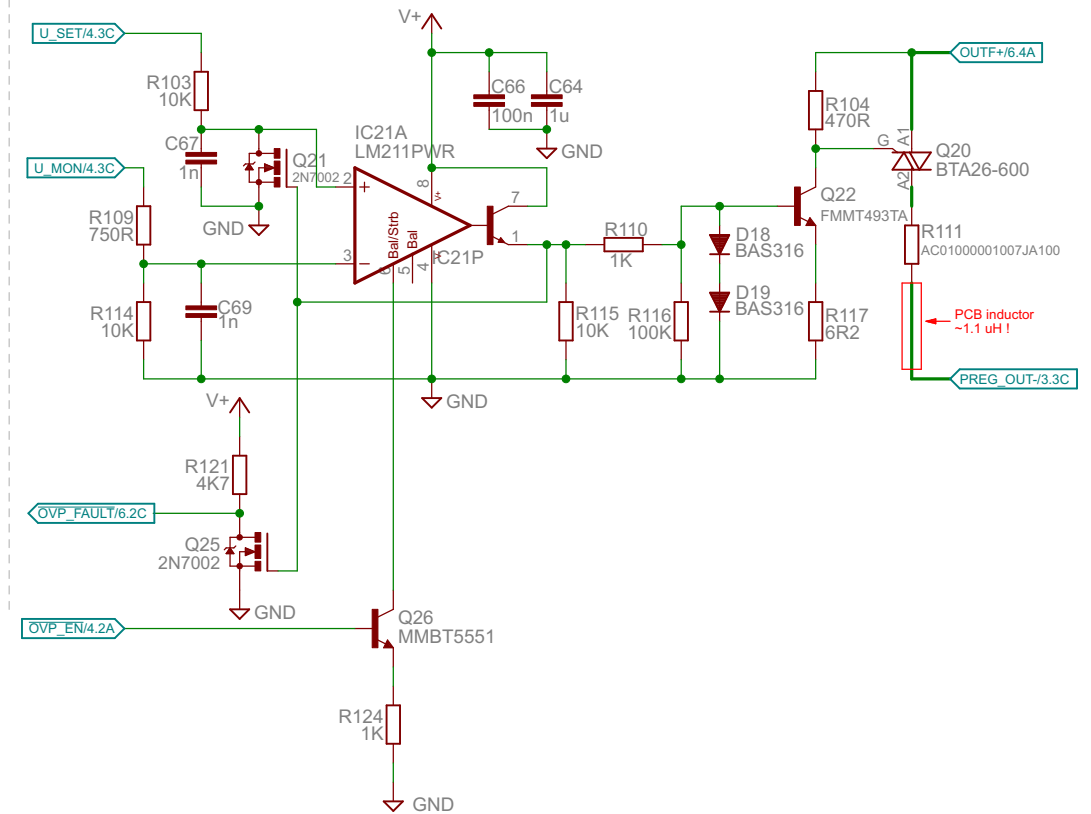
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# Constant Voltage (CV) and Constant Current (CC) mode detection and indication



# Over-voltage protection (OVP)



CC/CV mode detection and indication, OVP

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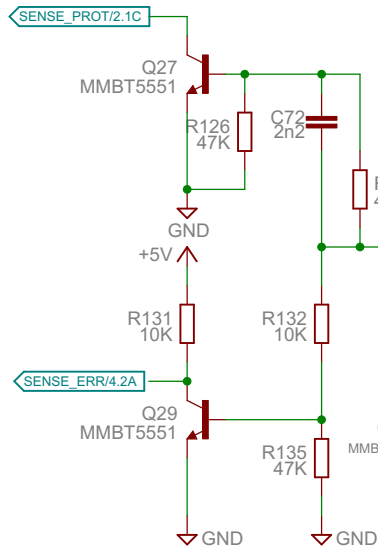
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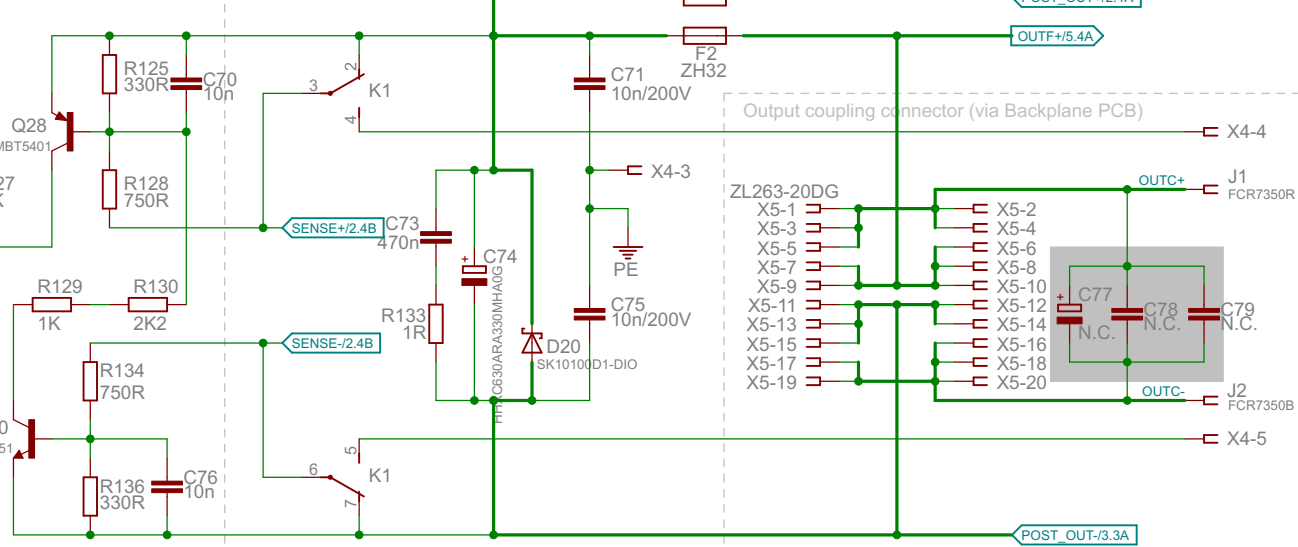
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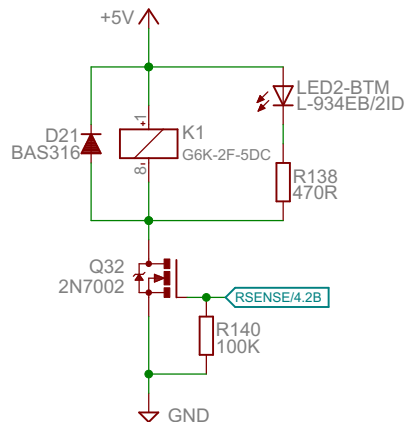
### Remote sense reverse polarity detection



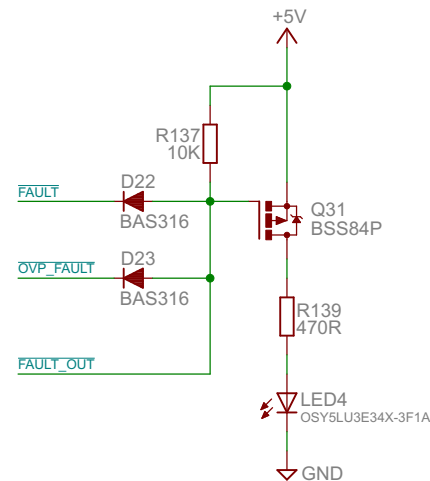
### Power output section



### Remote sense selection



### Fault indicator (optional)



### 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, Extra Cout switch  
Output coupling, Rsense relay, Fault LED

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