

SMPS power pre-regulator with 100% duty cycle

TITLE: EEZ DIB DCP405 r2B6

Document Number:

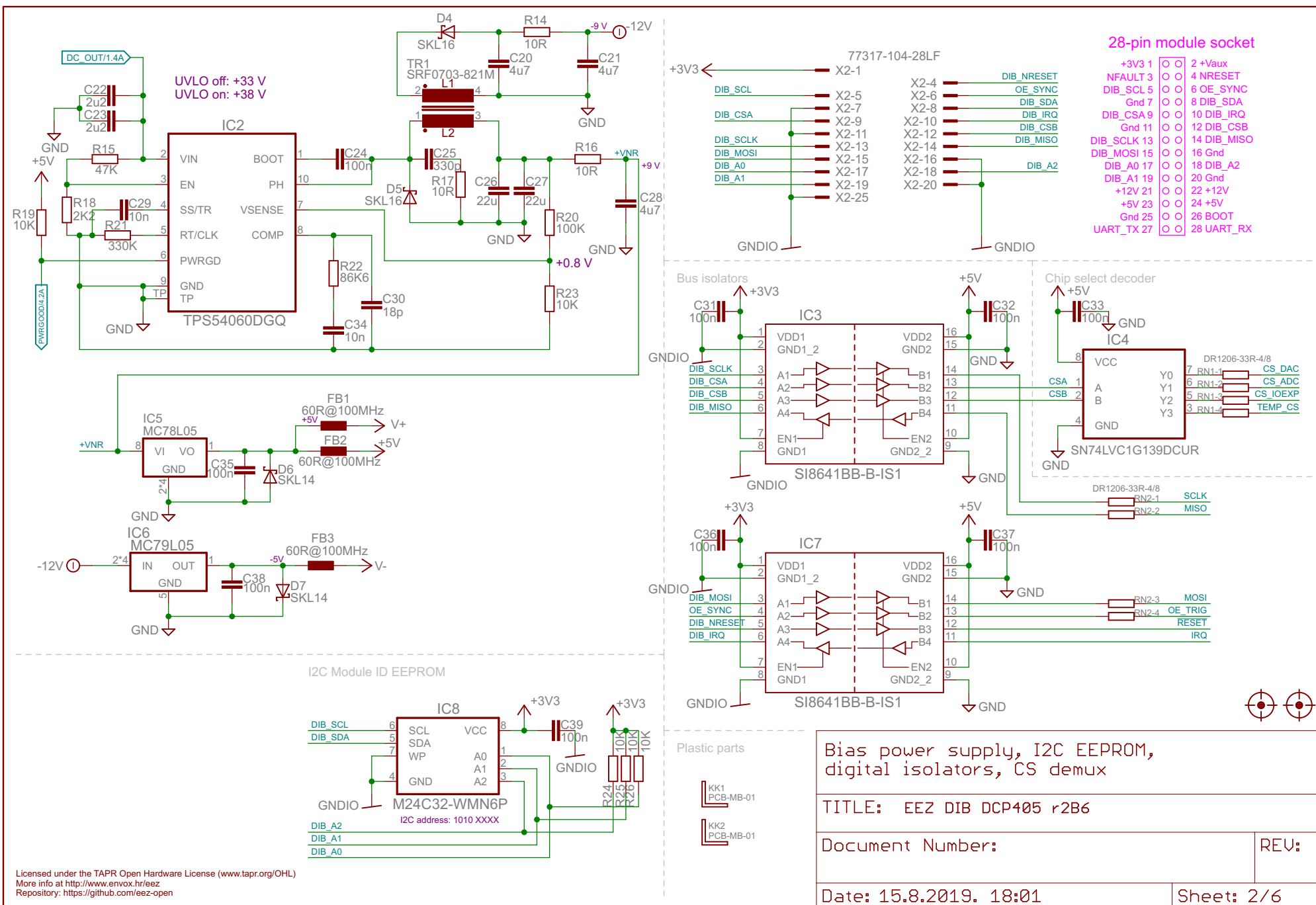
REV:

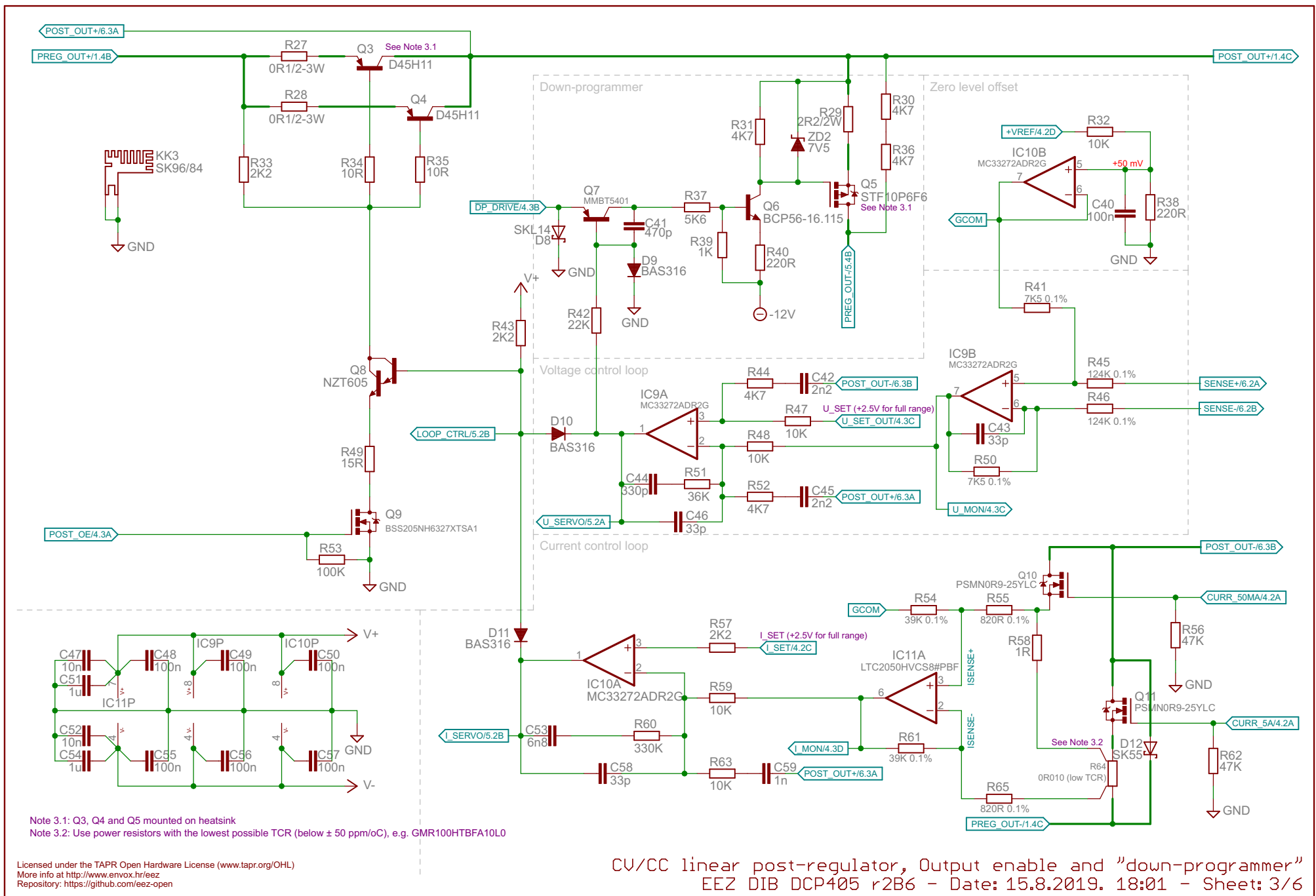
Date: 15.8.2019. 18:01

Sheet: 1/6

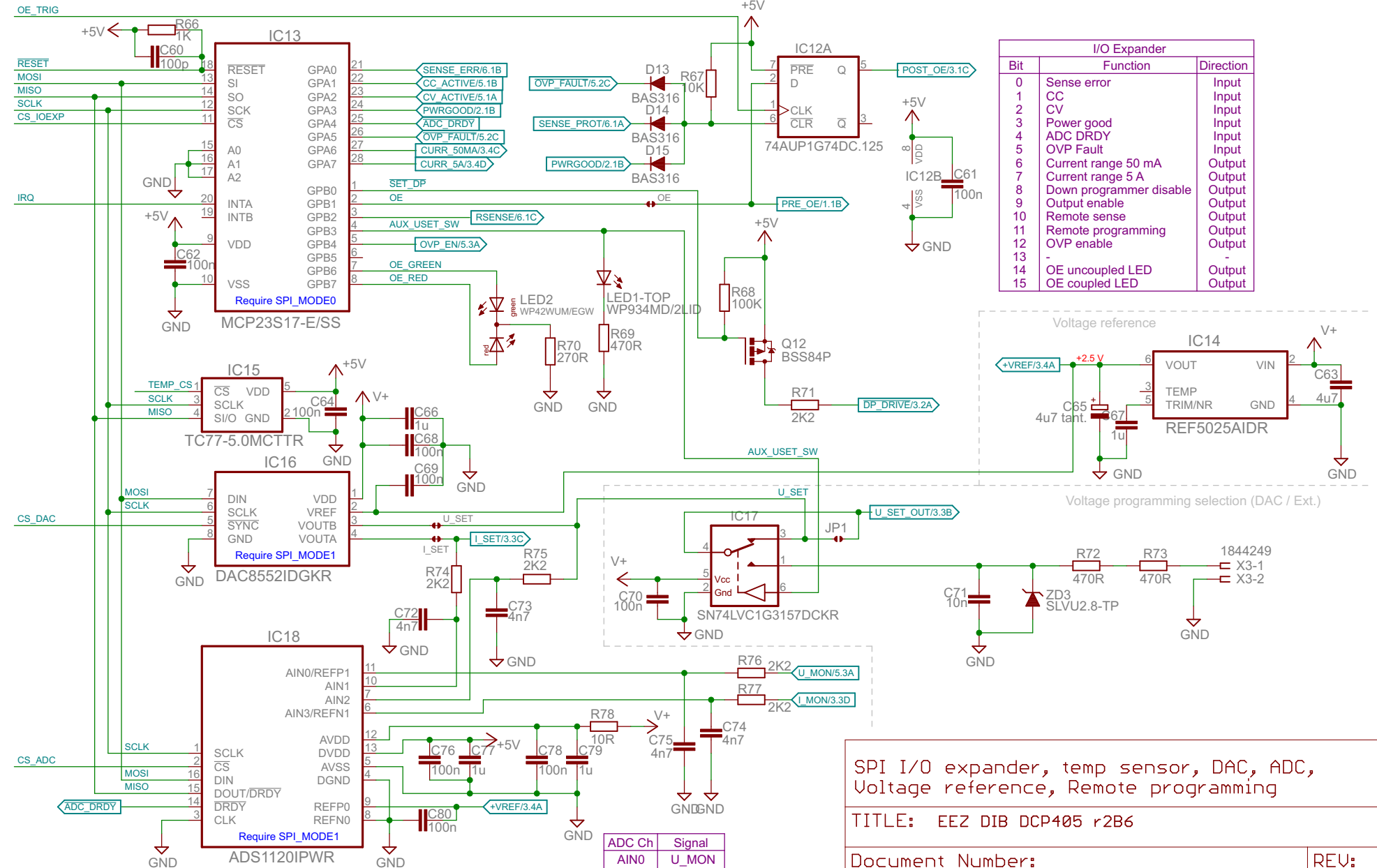
Note 1.1: Possible alternative AUIRFR5305, IRFR5305, SPD30P06P or other with similar or lower input capacitance  
 Note 1.2: WE 7447709330, WE 7443551331, Coilcraft MSS1210-333, Coilcraft XAL1510-333, Vishay IHL4040DZER470M11, etc.

Licensed under the TAPR Open Hardware License ([www.tapr.org/OHL](http://www.tapr.org/OHL))  
 More info at <http://www.envox.hr/eez>  
 Repository: <https://github.com/eez-open>

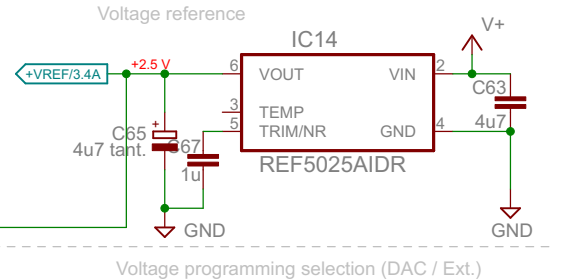




# Digital control (SPI)



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



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

TITLE: EEZ DIB DCP405 r2B6

Document Number:

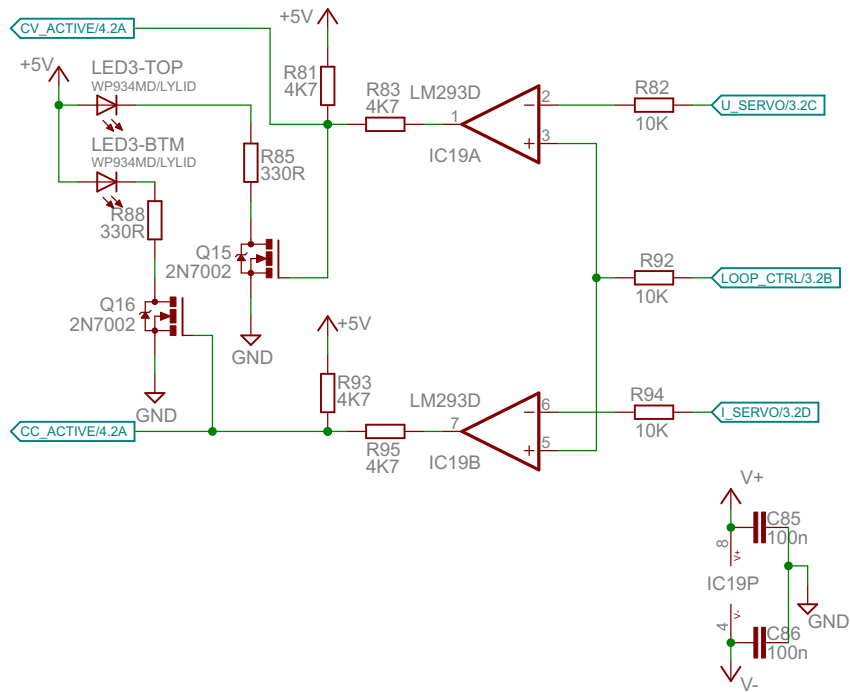
REV:

Date: 15.8.2019. 18:01

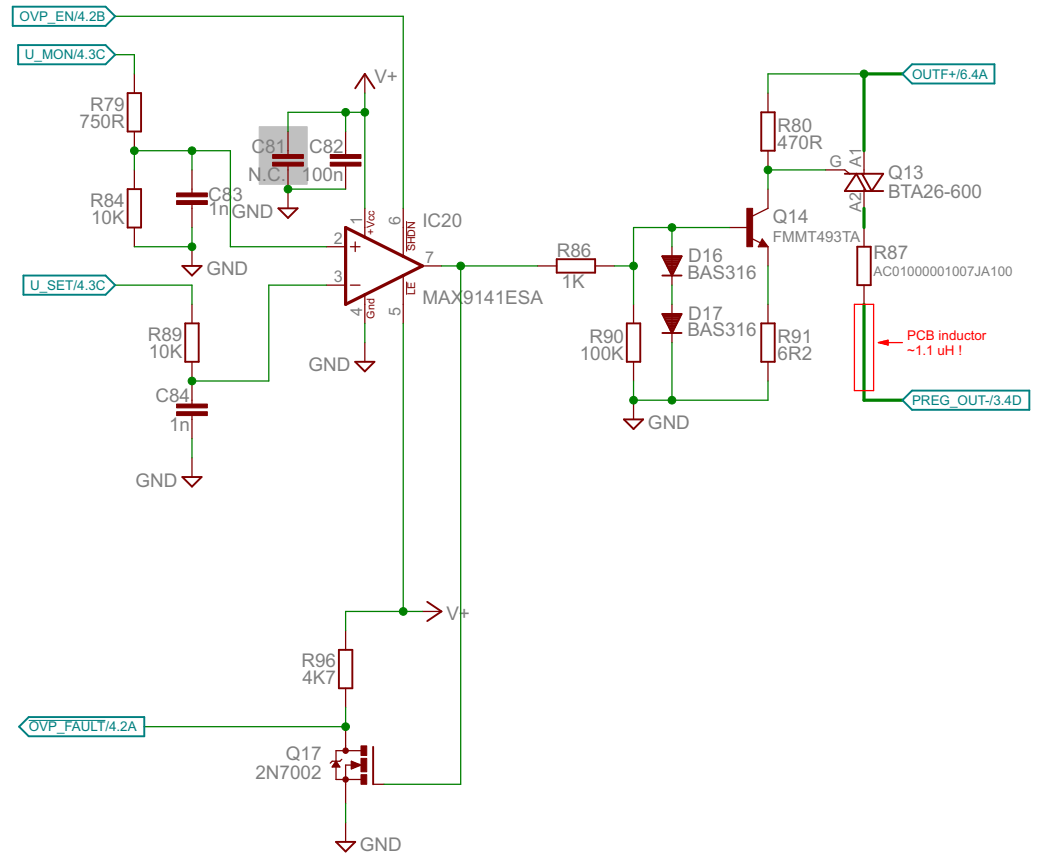
Sheet: 4/6

ADC Ch	Signal
AIN0	U_MON
AIN1	I_SET
AIN2	U_SET
AIN3	I_MON

# 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 r2B6

Document Number:

REV:

Date: 15.8.2019. 18:01

Sheet: 5/6

