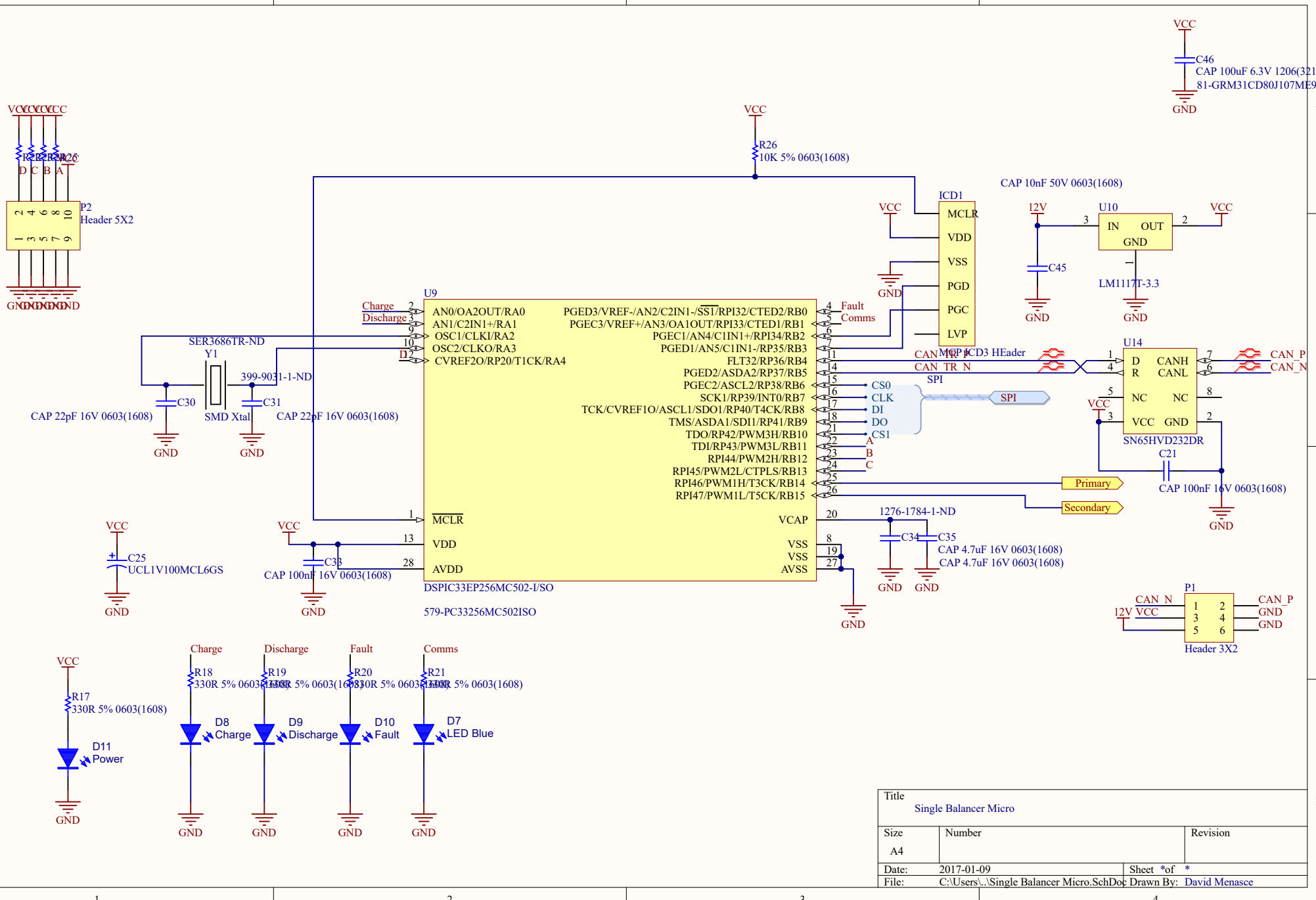
VCC
C46
CAP 100uF 6.3V 1206(3216)
81-GRM31CD80J107ME9L
GND
R26
10K 5% 0603(1608)
CAP 10nF 50V 0603(1608)
ICD1
MCLR
VDD
VSS
PGD
PGC
LVP
MCP ICD3 HEader
12V
U10
IN
OUT
GND
LM1117T-3.3
C45
P2
Header 5X2
U9
Charge
Discharge
D12
AN0/OA2OUT/RA0
AN1/C2IN1+/RA1
OSC1/CLKI/RA2
OSC2/CLKO/RA3
CVREF2O/RP20/T1CK/RA4
PGED3/VREF-/AN2/C2IN1-/SS1/RPI32/CTED2/RB0
PGEC3/VREF+/AN3/OA1OUT/RPI33/CTED1/RB1
PGEC1/AN4/C1IN1+/RPI34/RB2
PGED1/AN5/C1IN1-/RP35/RB3
FLT32/RP36/RB4
PGED2/ASDA2/RP37/RB5
PGEC2/ASCL2/RP38/RB6
SCK1/RP39/INT0/RB7
TCK/CVREF1O/ASCL1/SDO1/RP40/T4CK/RB8
TMS/ASDA1/SDI1/RP41/RB9
TDO/RP42/PWM3H/RB10
TDI/RP43/PWM3L/RB11
RPI44/PWM2H/RB12
RPI45/PWM2L/CTPLS/RB13
RPI46/PWM1H/T3CK/RB14
RPI47/PWM1L/T5CK/RB15
Fault
Comms
CS0
CLK
DI
DO
CS1
A
B
C
SPI
Primary
Secondary
MCLR
VDD
AVDD
VCAP
VSS
VSS
AVSS
DSPIC33EP256MC502-I/SO
579-PC33256MC502ISO
SER3686TR-ND
Y1
399-9031-1-ND
C30
CAP 22pF 16V 0603(1608)
SMD Xtal
C31
CAP 22pF 16V 0603(1608)
C25
UCL1V100MCL6GS
C33
CAP 100nF 16V 0603(1608)
1276-1784-1-ND
C34
C35
CAP 4.7uF 16V 0603(1608)
CAP 4.7uF 16V 0603(1608)
CAN_TR_P
CAN_TR_N
SPI
U14
D
R
CANH
CANL
NC
NC
VCC
GND
SN65HVD232DR
C21
CAP 100nF 16V 0603(1608)
CAN_P
CAN_N
P1
CAN_N
12V
VCC
CAN_P
GND
GND
Header 3X2
R17
330R 5% 0603(1608)
D11
Power
R18
330R 5% 0603(1608)
D8
Charge
R19
330R 5% 0603(1608)
D9
Discharge
R20
330R 5% 0603(1608)
D10
Fault
R21
330R 5% 0603(1608)
D7
LED Blue
Title
Single Balancer Micro
Size
A4
Number
Revision
Date:
2017-01-09
Sheet *of *
File:
C:\Users\..\Single Balancer Micro.SchDoc
Drawn By:
David Menasce