330/1000 = 5.04V
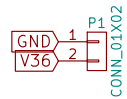330/560 = 3.37V
Vout = 1.25V * (1 + R2/R1) + IAdjR2

Main Power Input
Assuming 36V Input
LM317 can handle up to 40V

MCP1700

Bluetooth Module
uses the SPI interface
requires 3.3V voltage supply

GND
V36
P1
CONN_01X02

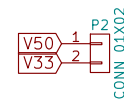U2
IN   OUT
LM317_SOT223
ADJ

V36   V50

C1
C?
10uF 50V
47uF 50V

330 R1
1K   R2

C2
10uF 10V

GND

V50   VIN   OUT   V33
GND
U4
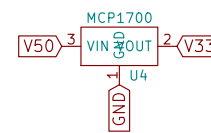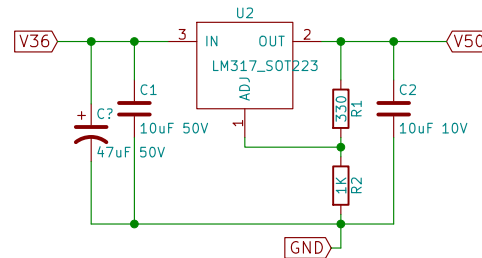
Bridge V50 to V33
If LM317 output is
3.3V instead of 5.0V

V50
V33
P2
CONN_01X02

U5
IRQ   MISO   MOSI
MOSI   SCK   SCK
CSN   CE   CE
VCC   GND   GND
NRF24L01+

MISO
CSN

V33

C3   C4
10uF   0.1uF

GND
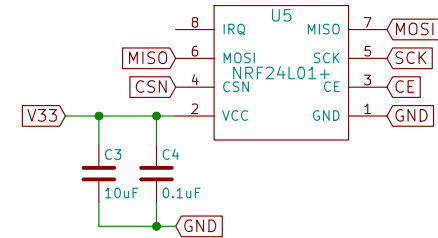
A6211 Logic HIGH is >1.8V, so no level shifting is needed
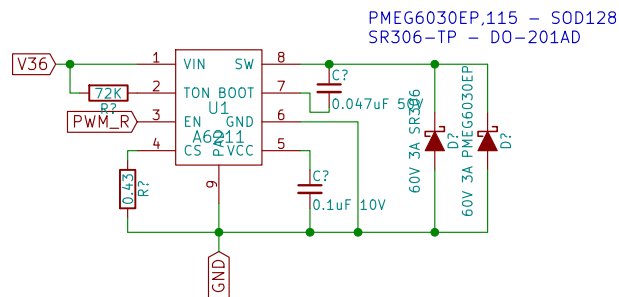
PMEG6030EP,115 – SOD128
SR306-TP – DO-201AD

V36
VIN   SW
TON   BOOT
EN   GND
CS   VCC
U1
A6211

72K
R?
PWM_R

C?
0.047uF 50V

0.43
R?

C?
0.1uF 10V

60V 3A SR306 D?
60V 3A PMEG6030EP D?

GND

U3
TX0   RAW
RXI   GND
RST   RST
GND   VCC
D2   A3
D3   A2
D4   A1
D5   A0
D6   SCK
D7   MISO
D8   MOSI
D9   D10
ArduinoProMini328

GND
PWM_R
PWM_G
PWM_B
CE

GND
V50
SCK
MISO
MOSI
CSN

GND   GND   VCC   RX1   TX0   DTR
A6   A7   A4   A5