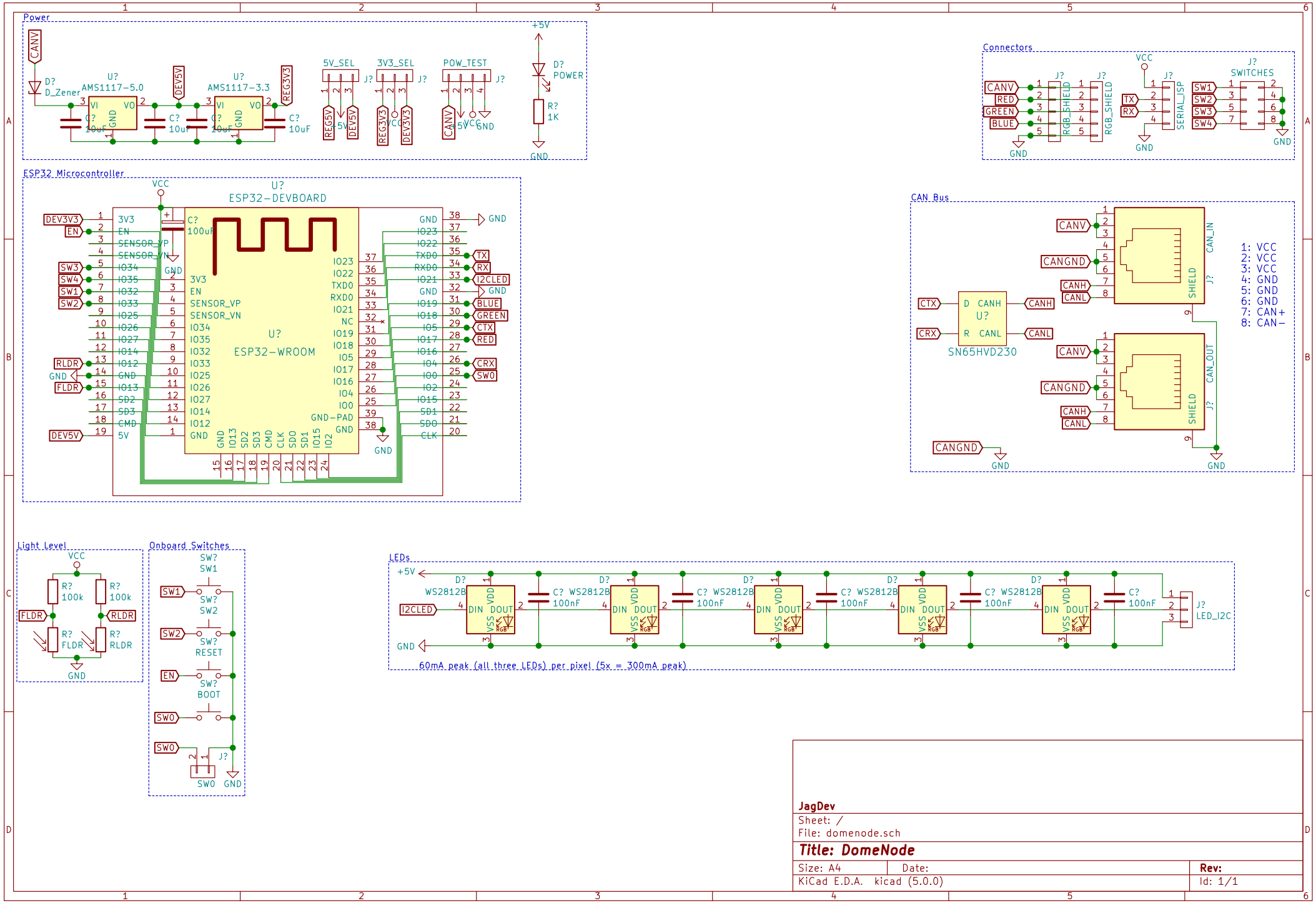
Power
CANV
D?
D_Zener
U?
AMS1117-5.0
VI
VO
GND
C?
10uF
DEV5V
U?
AMS1117-3.3
REG3V3
5V_SEL
3V3_SEL
POW_TEST
J?
REG5V
DEV5V
REG3V3
DEV3V3
VCC
+5V
D?
POWER
R?
1K
GND
Connectors
CANV
RED
GREEN
BLUE
RGB_SHIELD
TX
RX
SERIAL_ISP
SW1
SW2
SW3
SW4
SWITCHES
ESP32 Microcontroller
U?
ESP32-DEVBOARD
C?
100uF
3V3
EN
SENSOR_VP
SENSOR_VN
IO34
IO35
IO32
IO33
IO25
IO26
IO27
IO14
IO12
GND
IO13
SD2
SD3
CMD
5V
DEV3V3
SW3
SW4
SW1
SW2
RLDR
FLDR
DEV5V
U?
ESP32-WROOM
IO23
IO22
TXD0
RXD0
IO21
NC
IO19
IO18
IO5
IO17
IO16
IO4
IO0
GND-PAD
IO2
IO15
SD1
SD0
CLK
TX
RX
I2CLED
BLUE
GREEN
CTX
RED
CRX
SW0
CAN Bus
CANV
CANGND
CANH
CANL
CTX
CRX
U?
SN65HVD230
D
R
CAN_IN
CAN_OUT
SHIELD
1: VCC
2: VCC
3: VCC
4: GND
5: GND
6: GND
7: CAN+
8: CAN-
Light Level
VCC
R?
100k
FLDR
RLDR
R?
FLDR
R?
RLDR
GND
Onboard Switches
SW?
SW1
SW2
RESET
EN
BOOT
SW0
J?
LEDs
+5V
I2CLED
GND
D?
WS2812B
DIN
DOUT
VDD
VSS
RGB
C?
100nF
J?
LED_I2C
60mA peak (all three LEDs) per pixel (5x = 300mA peak)
JagDev
Sheet: /
File: domenode.sch
Title: DomeNode
Size: A4
Date:
Rev:
KiCad E.D.A. kicad (5.0.0)
Id: 1/1