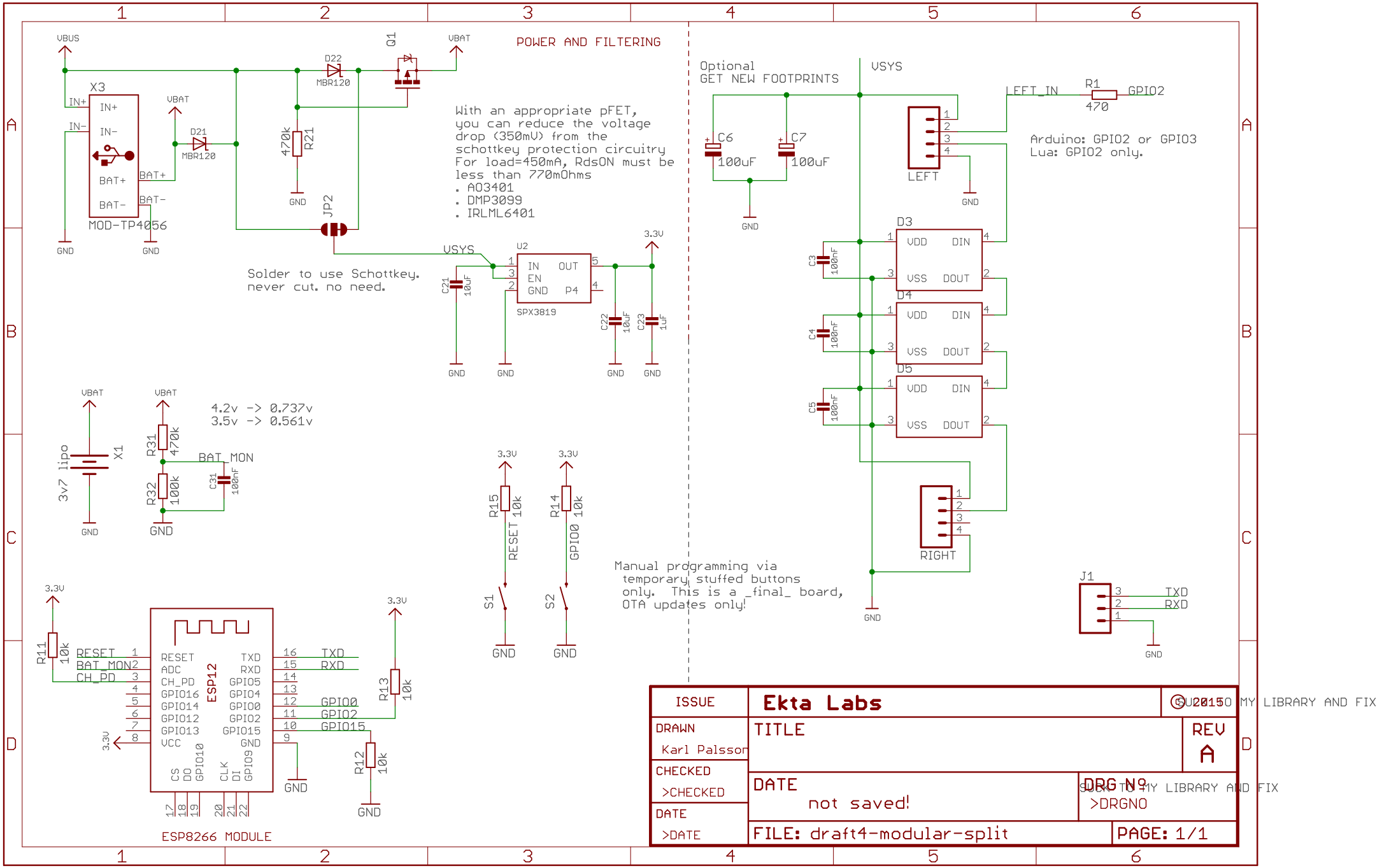
POWER AND FILTERING
VBUS
VBAT
Q1
D22
MBR120
X3
IN+
IN-
BAT+
BAT-
MOD-TP4056
D21
MBR120
470k
R21
GND
JP2
With an appropriate pFET, you can reduce the voltage drop (350mV) from the schottkey protection circuitry
For load=450mA, RdsON must be less than 770mOhms
. AO3401
. DMP3099
. IRLML6401
Solder to use Schottkey. never cut. no need.
VUSYS
U2
IN
OUT
EN
GND
P4
SPX3819
3.3V
C21
10uF
C22
10uF
C23
1uF
Optional
GET NEW FOOTPRINTS
C6
100uF
C7
100uF
LEFT_IN
R1
470
GPIO2
LEFT
Arduino: GPIO2 or GPIO3
Lua: GPIO2 only.
D3
D4
D5
VDD
DIN
VSS
DOUT
C3
100nF
C4
100nF
C5
100nF
RIGHT
3v7 lipo
X1
R31
470k
R32
100k
BAT_MON
C31
100nF
4.2v -> 0.737v
3.5v -> 0.561v
R15
10k
RESET
R14
10k
GPIO0
S1
S2
Manual programming via temporary, stuffed buttons only. This is a _final_ board, OTA updates only!
J1
TXD
RXD
R11
10k
RESET
BAT_MON
CH_PD
ESP12
ADC
GPIO16
GPIO14
GPIO12
GPIO13
VCC
GPIO5
GPIO4
GPIO0
GPIO2
GPIO15
R13
10k
R12
10k
ESP8266 MODULE
ISSUE
Ekta Labs
DRAWN
Karl Palsson
TITLE
REV
A
CHECKED
>CHECKED
DATE
not saved!
DRG N?
>DRGNO
DATE
>DATE
FILE: draft4-modular-split
PAGE: 1/1