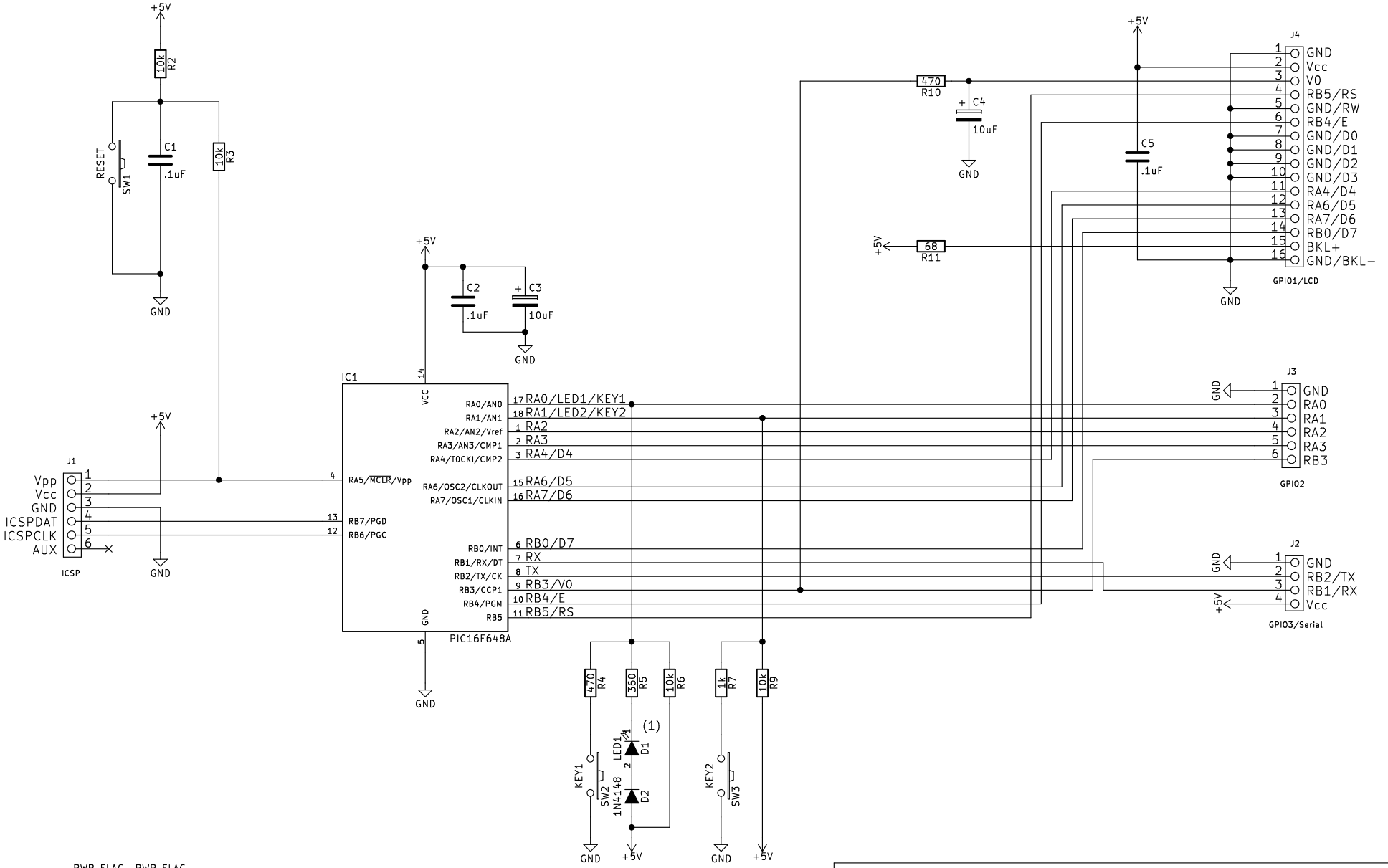
+5V
10k
R2
RESET
SW1
C1
.1uF
10k
R3
GND
C2
.1uF
C3
10uF
IC1
VCC
RA0/AN0
RA1/AN1
RA2/AN2/Vref
RA3/AN3/CMP1
RA4/T0CKI/CMP2
RA5/MCLR/Vpp
RA6/OSC2/CLKOUT
RA7/OSC1/CLKIN
RB0/INT
RB1/RX/DT
RB2/TX/CK
RB3/CCP1
RB4/PGM
RB5
PIC16F648A
J1
Vpp
Vcc
GND
ICSPDAT
ICSPCLK
AUX
ICSP
470
R10
C4
10uF
C5
.1uF
68
R11
J4
GND
Vcc
V0
RB5/RS
GND/RW
RB4/E
GND/D0
GND/D1
GND/D2
GND/D3
RA4/D4
RA6/D5
RA7/D6
RB0/D7
BKL+
GND/BKL−
GPIO1/LCD
J3
RA0
RA1
RA2
RA3
RB3
GPIO2
J2
RB2/TX
RB1/RX
GPIO3/Serial
RA0/LED1/KEY1
RA1/LED2/KEY2
RA2
RA3
RA4/D4
RA6/D5
RA7/D6
RB0/D7
RX
TX
RB3/V0
RB4/E
RB5/RS
470
R4
360
R5
10k
R6
1k
R7
10k
R9
(1)
LED1
D1
1N4148
D2
KEY1
SW2
KEY2
SW3
PWR_FLAG
PWR_FLAG
(1) Must be Vf >= 3V
Sheet: /
File: A231216.sch
Title: A231216 – PIC16F648A Demo Board
Size: A4
Date:
Rev:
KiCad E.D.A. kicad 4.0.4-stable
Id: 1/1