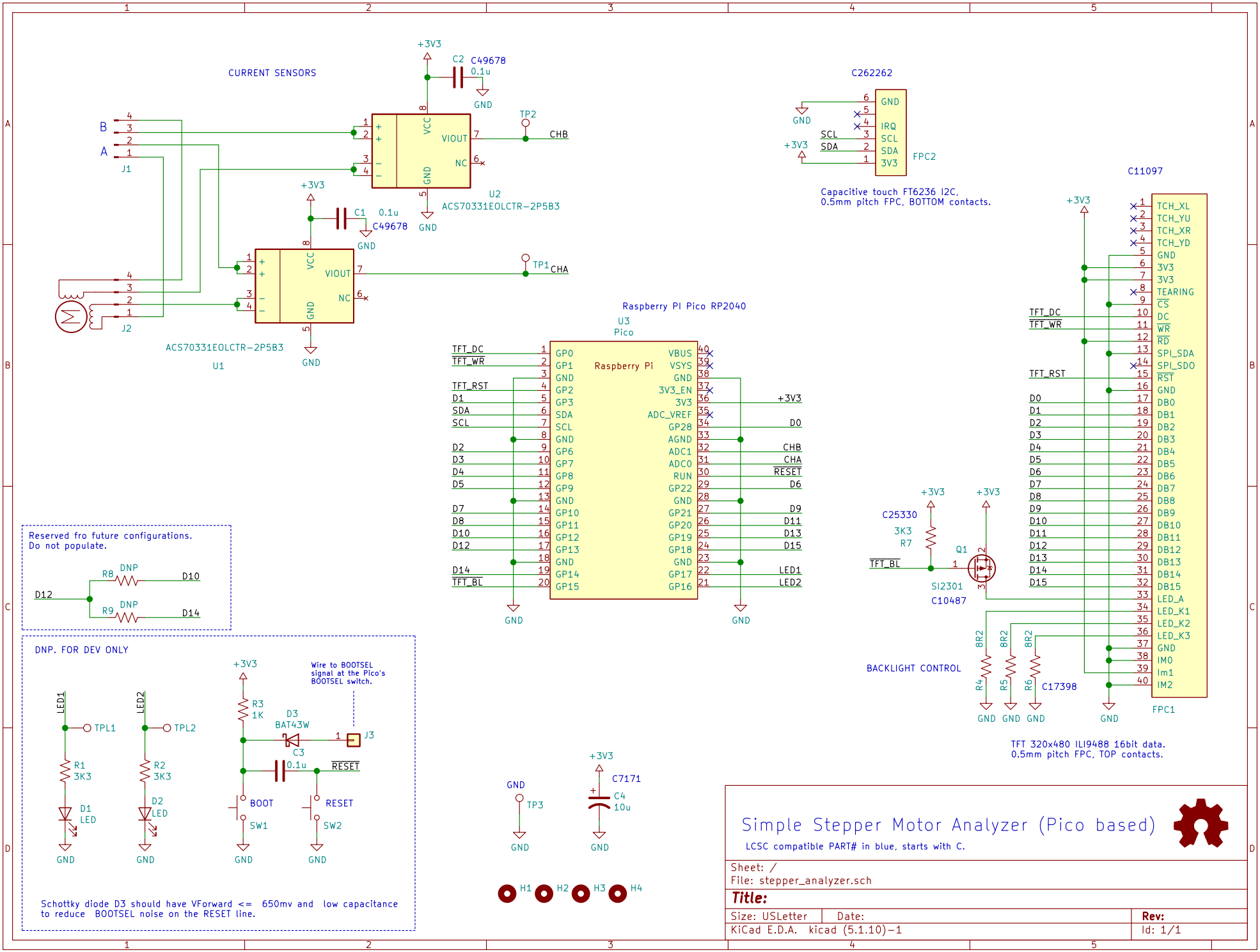
CURRENT SENSORS
+3V3
C2 C49678
0.1u
GND
B
A
J1
TP2
CHB
VCC
VIOUT
NC
GND
U2
ACS70331EOLCTR-2P5B3
C1 0.1u
C49678
TP1
CHA
J2
ACS70331EOLCTR-2P5B3
U1
C262262
GND
SCL
SDA
IRQ
3V3
FPC2
Capacitive touch FT6236 I2C,
0.5mm pitch FPC, BOTTOM contacts.
C11097
TCH_XL
TCH_YU
TCH_XR
TCH_YD
TEARING
CS
DC
WR
RD
SPI_SDA
SPI_SDO
RST
DB0
DB1
DB2
DB3
DB4
DB5
DB6
DB7
DB8
DB9
DB10
DB11
DB12
DB13
DB14
DB15
LED_A
LED_K1
LED_K2
LED_K3
IM0
Im1
IM2
FPC1
TFT_DC
TFT_WR
TFT_RST
TFT_BL
Raspberry Pi Pico RP2040
U3
Pico
Raspberry Pi
GP0
GP1
GP2
GP3
GP6
GP7
GP8
GP9
GP10
GP11
GP12
GP13
GP14
GP15
VBUS
VSYS
3V3_EN
ADC_VREF
GP28
AGND
ADC1
ADC0
RUN
GP22
GP21
GP20
GP19
GP18
GP17
GP16
D0
D1
D2
D3
D4
D5
D6
D7
D8
D9
D10
D11
D12
D13
D14
D15
SDA
SCL
RESET
LED1
LED2
C25330
3K3
R7
Q1
SI2301
C10487
BACKLIGHT CONTROL
8R2
R4
R5
R6
C17398
TFT 320x480 ILI9488 16bit data.
0.5mm pitch FPC, TOP contacts.
Reserved fro future configurations.
Do not populate.
R8 DNP
R9 DNP
DNP. FOR DEV ONLY
Wire to BOOTSEL
signal at the Pico's
BOOTSEL switch.
LED1
LED2
TPL1
TPL2
R1
3K3
R2
3K3
D1
LED
D2
LED
R3
1K
D3
BAT43W
J3
C3
0.1u
BOOT
RESET
SW1
SW2
Schottky diode D3 should have VForward <= 650mv and low capacitance
to reduce BOOTSEL noise on the RESET line.
TP3
C7171
C4
10u
H1
H2
H3
H4
Simple Stepper Motor Analyzer (Pico based)
LCSC compatible PART# in blue, starts with C.
Sheet: /
File: stepper_analyzer.sch
Title:
Size: USLetter
Date:
Rev:
KiCad E.D.A. kicad (5.1.10)-1
Id: 1/1