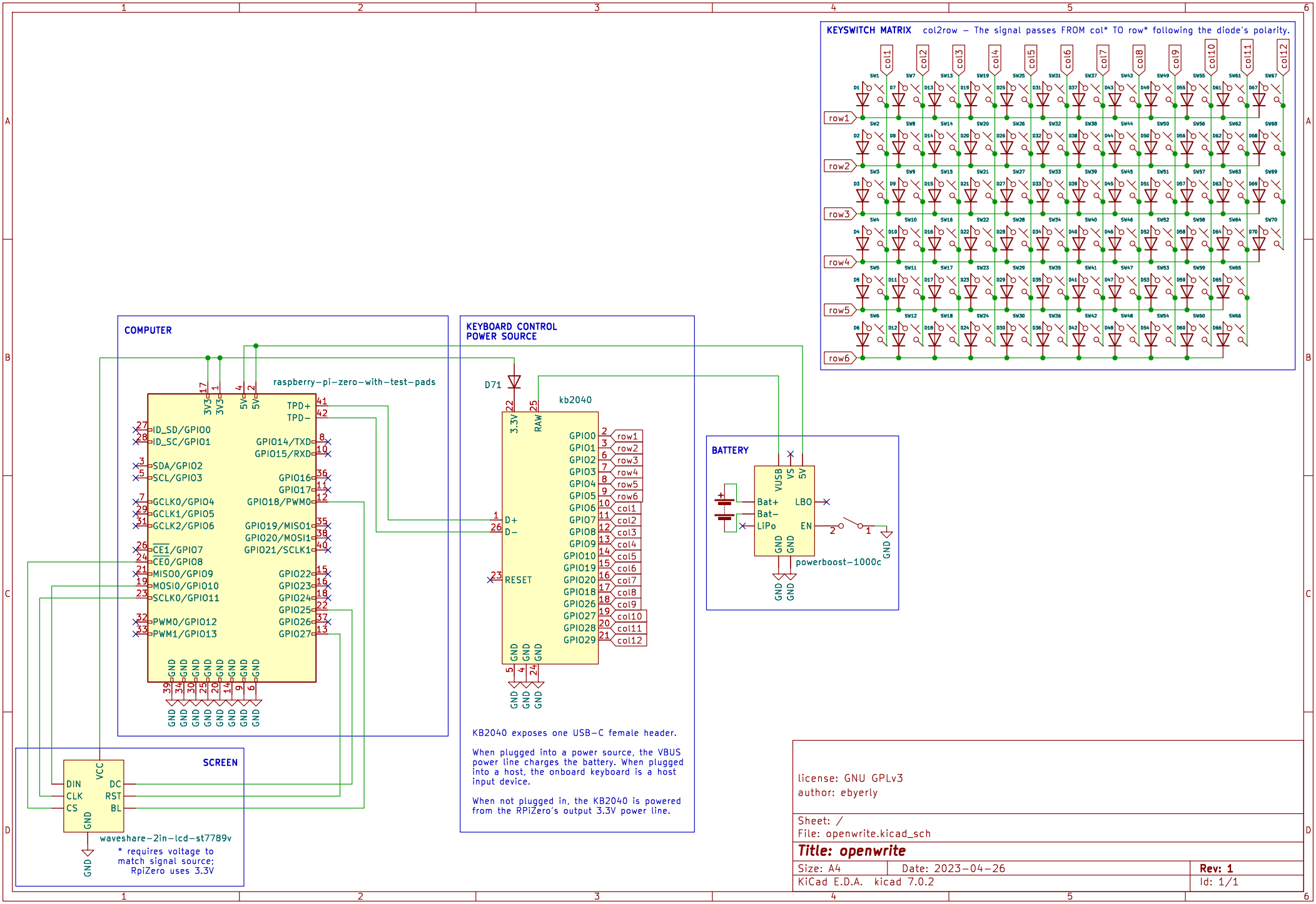
KEYSWITCH MATRIX
col2row – The signal passes FROM col* TO row* following the diode's polarity.
col1
col2
col3
col4
col5
col6
col7
col8
col9
col10
col11
col12
row1
row2
row3
row4
row5
row6
COMPUTER
raspberry-pi-zero-with-test-pads
3V3
5V
TPD+
TPD-
ID_SD/GPIO0
ID_SC/GPIO1
SDA/GPIO2
SCL/GPIO3
GCLK0/GPIO4
GCLK1/GPIO5
GCLK2/GPIO6
CE1/GPIO7
CE0/GPIO8
MISO0/GPIO9
MOSI0/GPIO10
SCLK0/GPIO11
PWM0/GPIO12
PWM1/GPIO13
GPIO14/TXD
GPIO15/RXD
GPIO16
GPIO17
GPIO18/PWM0
GPIO19/MISO1
GPIO20/MOSI1
GPIO21/SCLK1
GPIO22
GPIO23
GPIO24
GPIO25
GPIO26
GPIO27
GND
KEYBOARD CONTROL
POWER SOURCE
D71
kb2040
3.3V
RAW
D+
D-
RESET
GPIO0
GPIO1
GPIO2
GPIO3
GPIO4
GPIO5
GPIO6
GPIO7
GPIO8
GPIO9
GPIO10
GPIO19
GPIO20
GPIO18
GPIO26
GPIO27
GPIO28
GPIO29
BATTERY
VUSB
VS
5V
Bat+
Bat-
LiPo
LBO
EN
powerboost-1000c
SCREEN
VCC
DIN
CLK
CS
DC
RST
BL
waveshare-2in-lcd-st7789v
* requires voltage to match signal source; RpiZero uses 3.3V
KB2040 exposes one USB-C female header.
When plugged into a power source, the VBUS power line charges the battery. When plugged into a host, the onboard keyboard is a host input device.
When not plugged in, the KB2040 is powered from the RPiZero's output 3.3V power line.
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author: ebyerly
Sheet: /
File: openwrite.kicad_sch
Title: openwrite
Size: A4
Date: 2023-04-26
Rev: 1
KiCad E.D.A. kicad 7.0.2
Id: 1/1