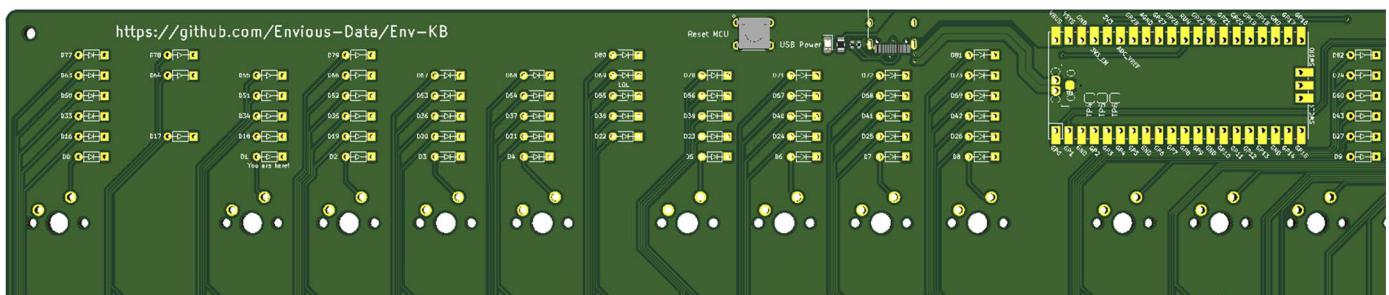
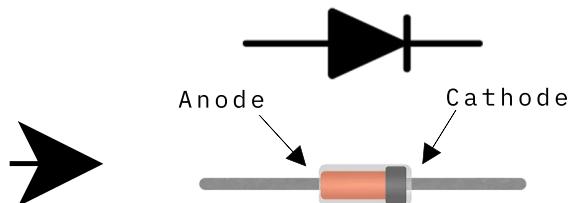


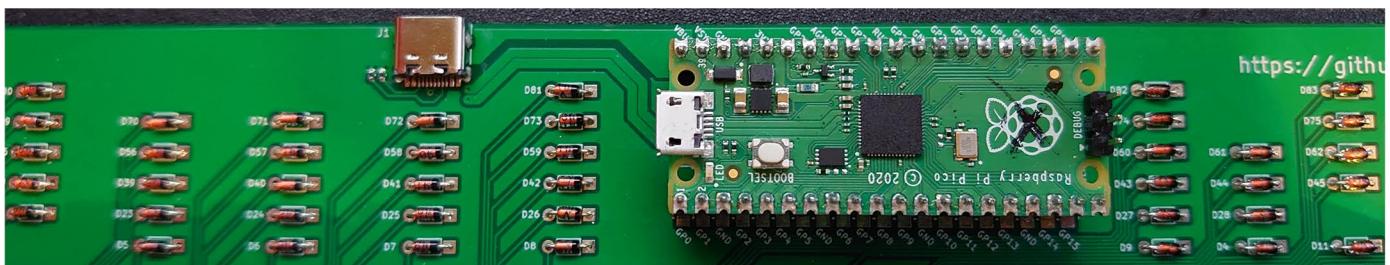
Env - KB Build Guide

<http://github.com/Envious-Data/Env-KB>

Diode Orientation



When installing the diodes to the board make sure the tops of the diodes face toward the right, this is the side with the black band as you see above



The Raspberry Pi pico is to be installed with the USB port facing left.
(Like the picture above)

there are a couple of mount option.

You can mount the RPI Pico directly on the board utilizing the castelations, to enable functionality of the keyboards Type-C port you will need to add a bit of solder to the pads on the board and your Raspberry Pi Pico, you will then need to reflow that solder via a hot air gun, you *may* be able to melt those pads by holding your soldering iron to the back with a larger tip.

Alternatively you can solder female headers to the board and use pogo pins or wire to connect to the tp pads, the recomended length depends on your header size.

Parts list

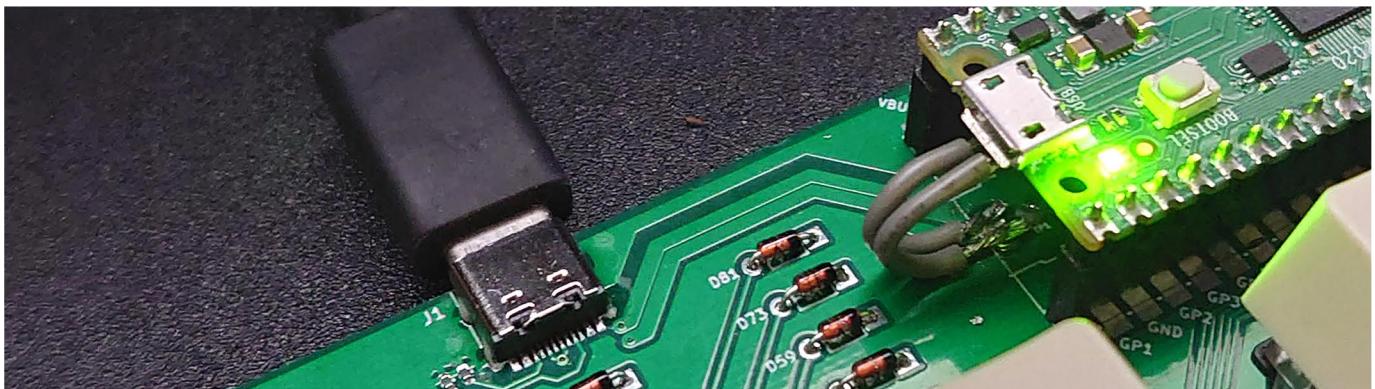
- * 88x 1N4148 Diodes
- * Raspberry Pi Pico
- * Env-KB PCB
- * 88x MX Style Key Switches
- * Preferred Keycap set

- * 2x (1x20 female headers)
- * 2x (1x20 male headers)
- * 2x Pogo Pings/Spring contacts (1mm THT Peg)
Please note the required length of pogo pins depends on the height of your headers
- * You can also use some wire instead of pogo pins.

TP Pads

The Raspberry Pi Pico has some of the USB BUS exposed via tp pads on the underside of the MCU, I've decided to use this to be able to add USB Type-C to the keyboard.

As you can see from the photo below I've mounted my Raspberry Pi Pico using Male and female headers and a couple of wires to connect TP1 and TP2 to the respective pads on the board, The USB-Type port will not work otherwise.

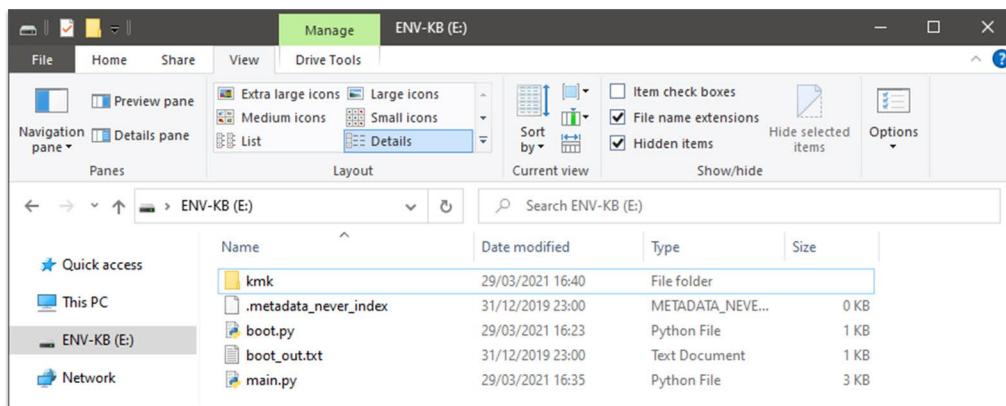


Raspberry Pi Pico Setup

Setting up the Raspberry Pi Pico for use with this KMK is a tiny bit of a complex task if you are new to this, You are going to want to flash CircuitPython to the RPI Pico

If you don't know how to do this download the Circuitpython UF2 file from
https://circuitpython.org/board/raspberry_pi_pico/

- * hold the "bootsel" button while plugging in your Raspberry Pi Pico
- * Copy the Circuitpython UF2 file to your raspberry pi pico (it should show up as a usb stick like device)
- * it will now automatically reboot once copied
- * Once it has rebooted it will show up as Circuitpy, copy the contents of EnvKB-FW.zip to your Raspberry Pi Pico. (which you can download from -> <https://github.com/Envious-Data/Env-KB>)



After doing the above your Raspberry Pi Pico is ready to be used as a keyboard controller

Kit Contents

Included in each keyboard kit I sell

90x 1n4148 diodes
1x 1x40 2.54mm pitch male header
2x 1x20 2.54mm pitch female header
1x Env-KB Keyboard PCB

this part is unfinished, Things are going to change
for the Rev#0 Keyboards you may get a Wood backing plate, some M3 screws, washers, nuts and some damping foam.