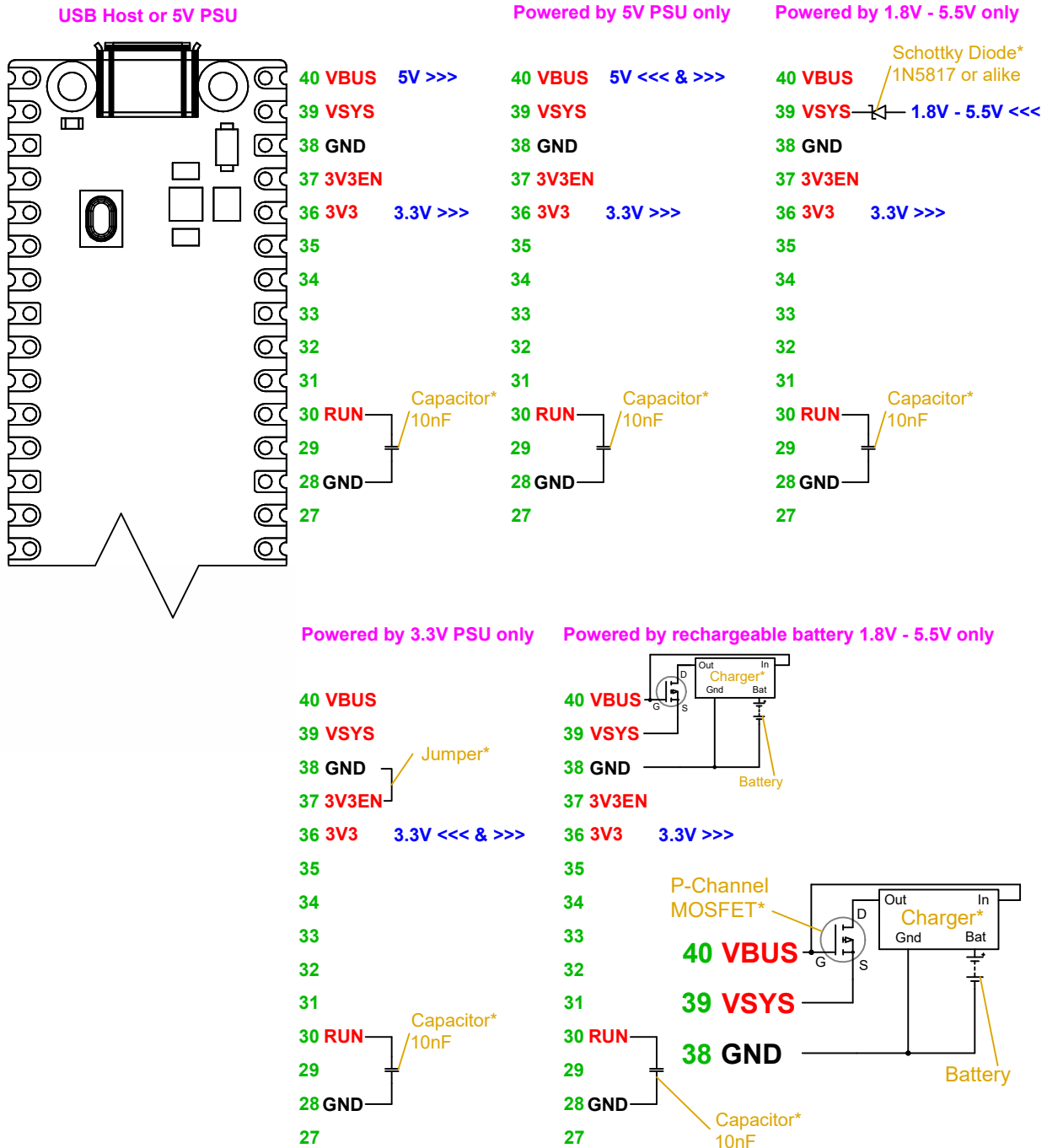


# Variants of the Pico Power Supply (PSU)



Capacitor\*

Typically the circuits work more reliable if a capacitor (10nF) from the RUN (Pin 30) to ground is added. This prevents accidental RESET's in electrical noisy environments (industrial / welders / CF lights).

Schottky Diode\*

The type 1N5817 or alike prevents a current in a wrong direction.

Jumper\*

The on board 3.3V regulator has to be disabled by shorting 3.3V\_EN (Pin 37) to GND (Pin 38).

Charger\*

There are many different charging modules. Search for arduino charger board.

P-Channel MOSFET\*

To choose a MOSFET look for one that has a low threshold voltage (well below the incoming voltage that you want to use) and a low "on" resistance. It also needs to be able to carry at least 5V and something above 500mA.

P-Channel MOSFETs are not easy to find in through-hole designs now.

There are excellent ones like the DMG2305UX or the IRLML 2244 but in surface mount design only.

What prevents us from soldering wires to a SOT-23 for the breadboard?