

0.005 * 3 = 15mV drop
A4 has gain of 200x
15mV * 200 = 3V
Voltage range is 0-3V

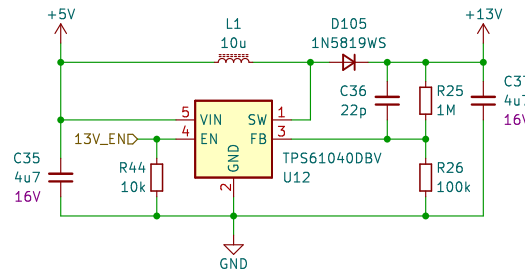
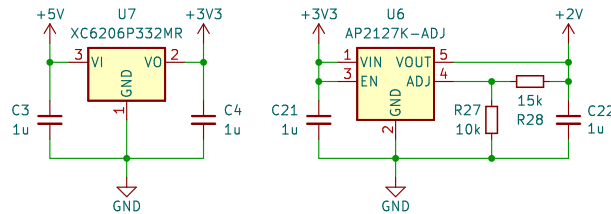
VBUS max is 5.5V
5.5 * 15 / (10 + 15) = 3.3V
Voltage range is 0-3.3V

OUT1	OUT2	ADVERTISEMENT
H	X	Default current
L	H	Med current (1.5A)
L	L	High current (3A)

Soft-start: 42000 / 100000 = 0.42V/mS
5 / 0.42 = 11.9mS

Default power (500mA): R(ILIM) = 12k || 6k8 = 4k34 @ 1% ~ 501mA
Med power (1500mA): R(ILIM) = 12k || 6k8 || 2k @ 1% = 1k37 ~ 1501mA
High power (3000mA): R(ILIM) = 12k || 6k8 || 2k || 4k7 || 2k @ 1% = 693 ~ 2926mA

Soft-start: 42000 / 100000 = 0.42V/mS
5 / 0.42 = 11.9mS
R(ILIM) = 1k || 2k @ 1% = 666.67 ~ 3039mA



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All capacitors 50V unless otherwise specified.
Created by Ariamelon (<https://github.com/Ariamelon/Honeydew/>)

Sheet: /PSU/
File: PSU.kicad_sch

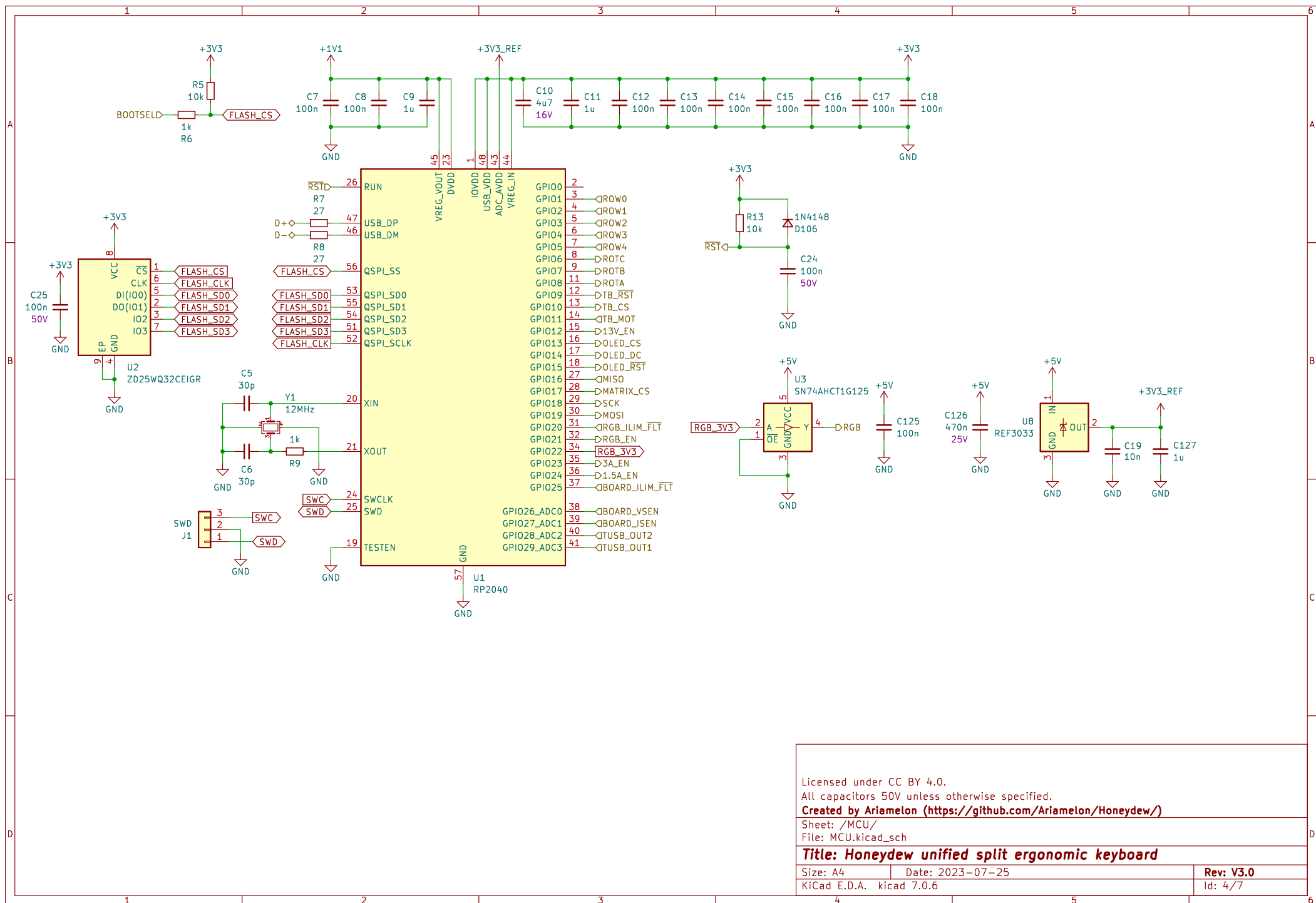
Title: Honeydew unified split ergonomic keyboard

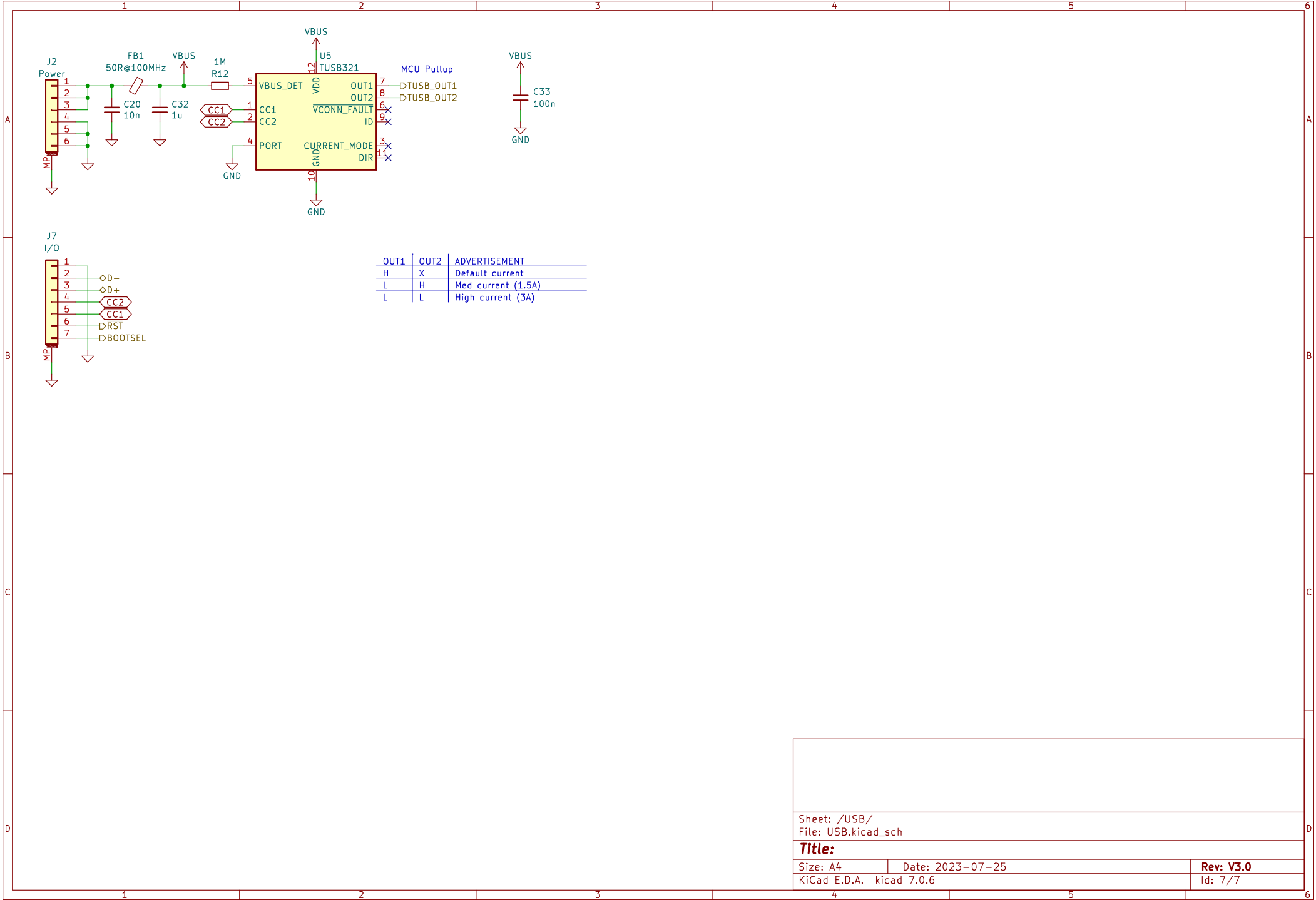
Size: A4 Date: 2023-07-25

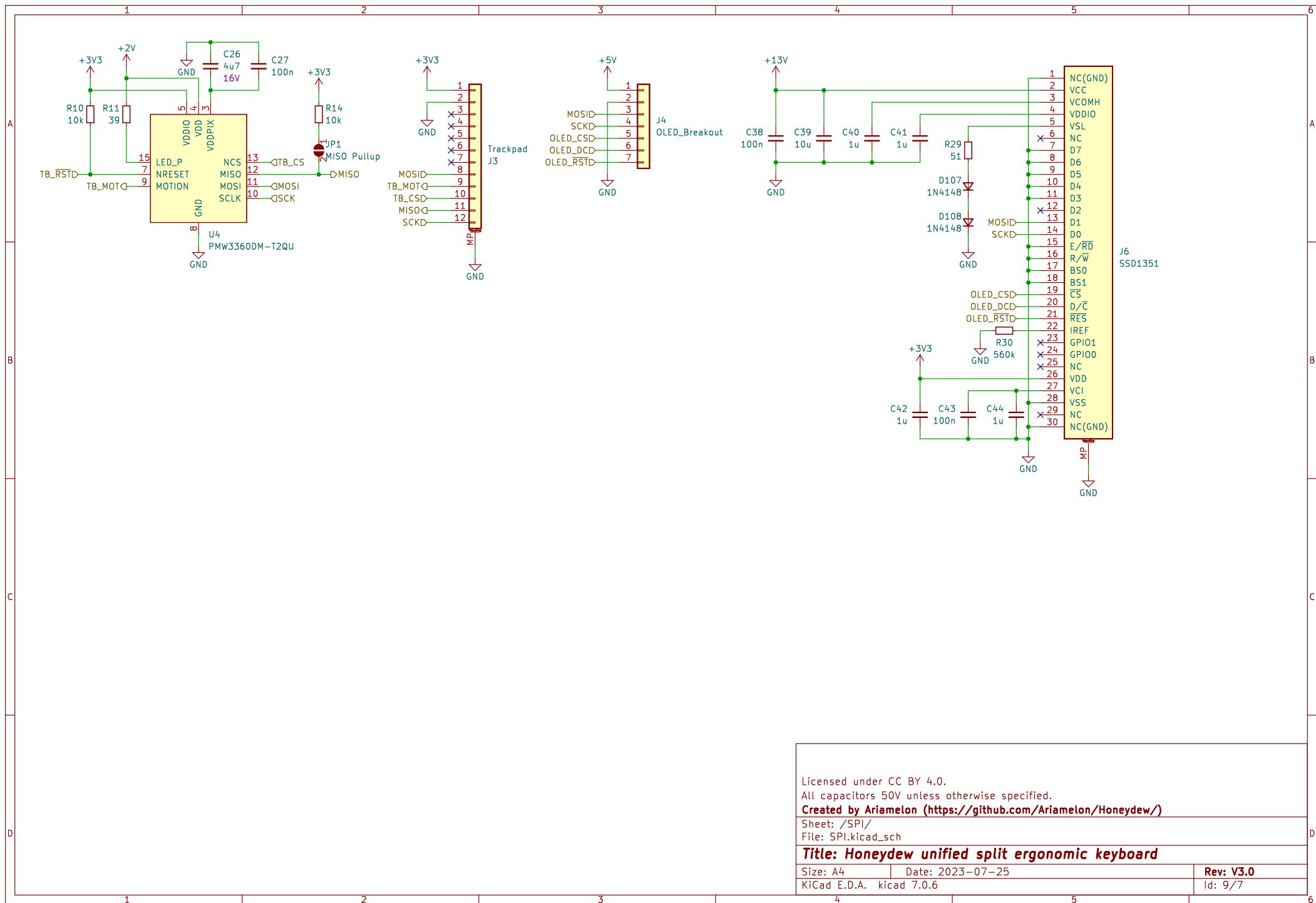
KiCad E.D.A. kicad 7.0.6

Rev: V3.0

Id: 3/7







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Sheet: /SPI/

File: SPI.kicad_sch

Title: Honeydew unified split ergonomic keyboard

Size: A4 Date: 2023-07-25

KiCad E.D.A. kicad 7.0.6

Rev: V3.0

Id: 9/7