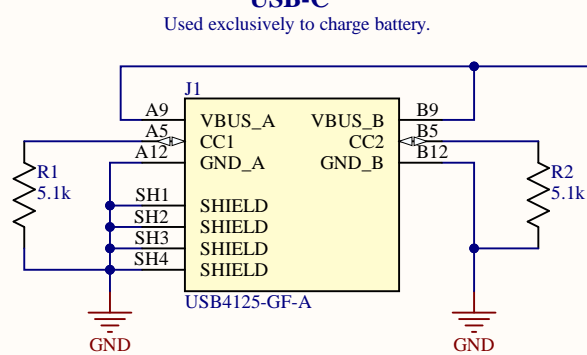


USB-C

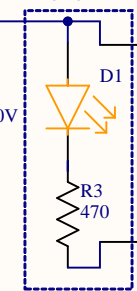
Used exclusively to charge battery.



USB-C plug will be placed on edge of the PCB for access through housing.

Power Charger

Charging Status

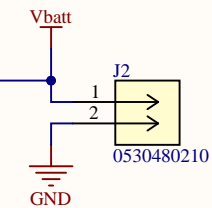


For best thermal performance, add vias from land area of EP to copper layer on opposite side of PCB

Power charger should be placed close to battery connector.

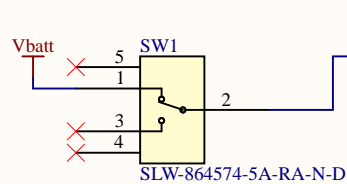
Li Ion Battery

LP384260JU+PCM+MOLEX 51021-0200 35MM



Connector will be placed on edge of the PCB to connect to battery located underneath.

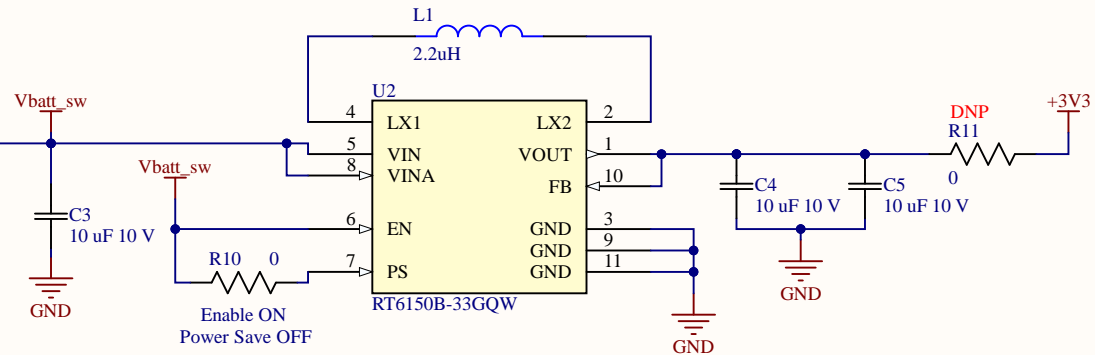
Power Switch



Switch in L position: ON
Switch in R positon: OFF

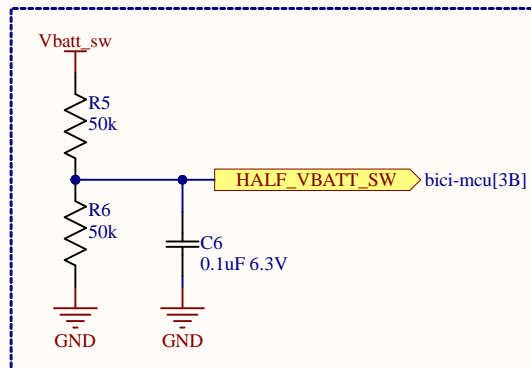
Switch will be placed on edge of the PCB for access through housing.

Buck-Boost

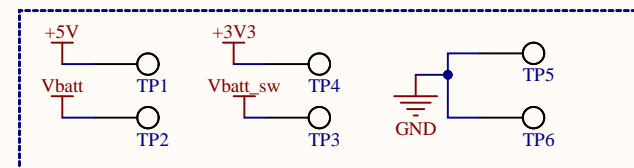


C3 should be placed as close as possible to Vin.
C4 and C5 should be placed as close as possible to Vout.
L1 should be connected to inductor by wide and short trace.

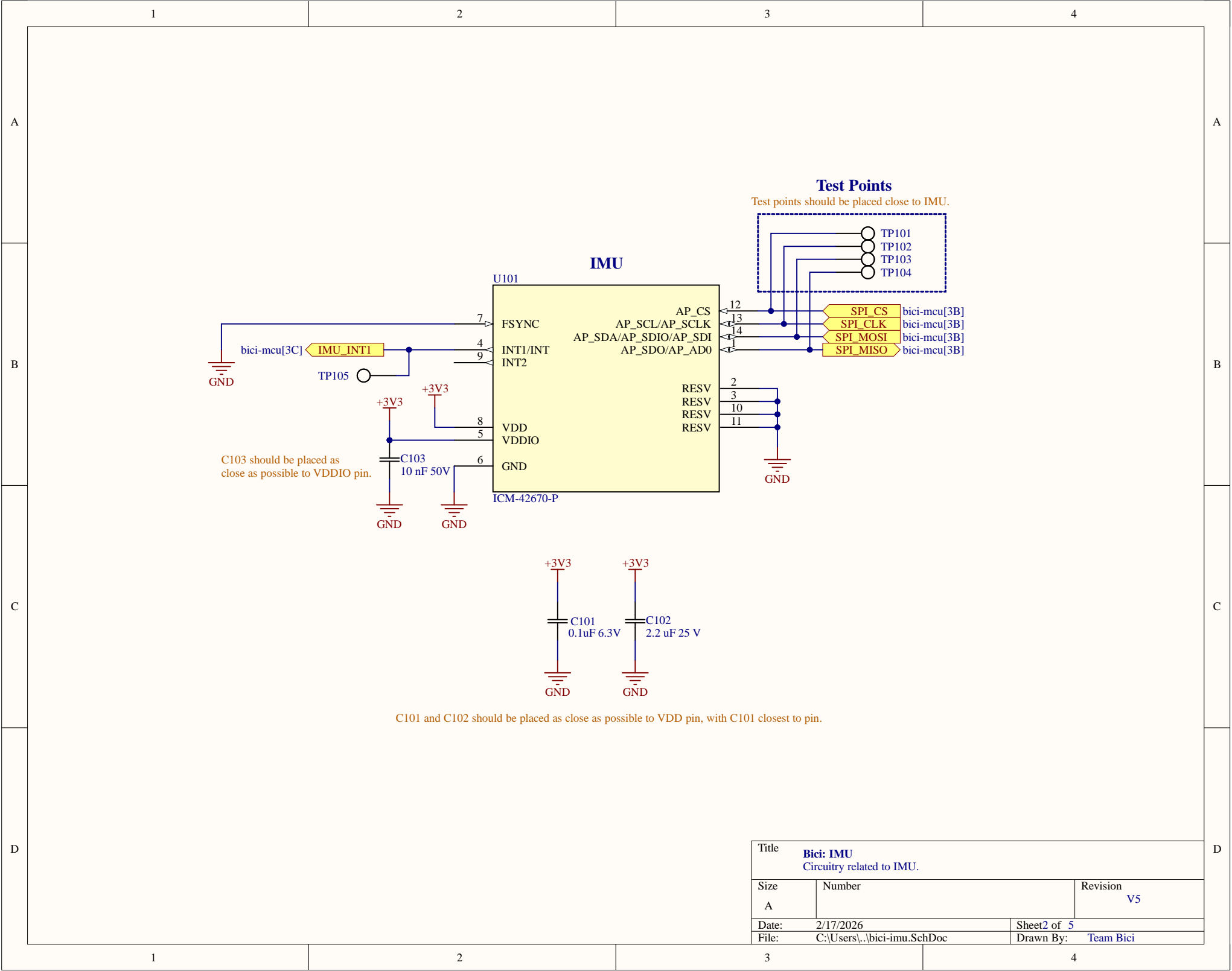
Low Power Detection

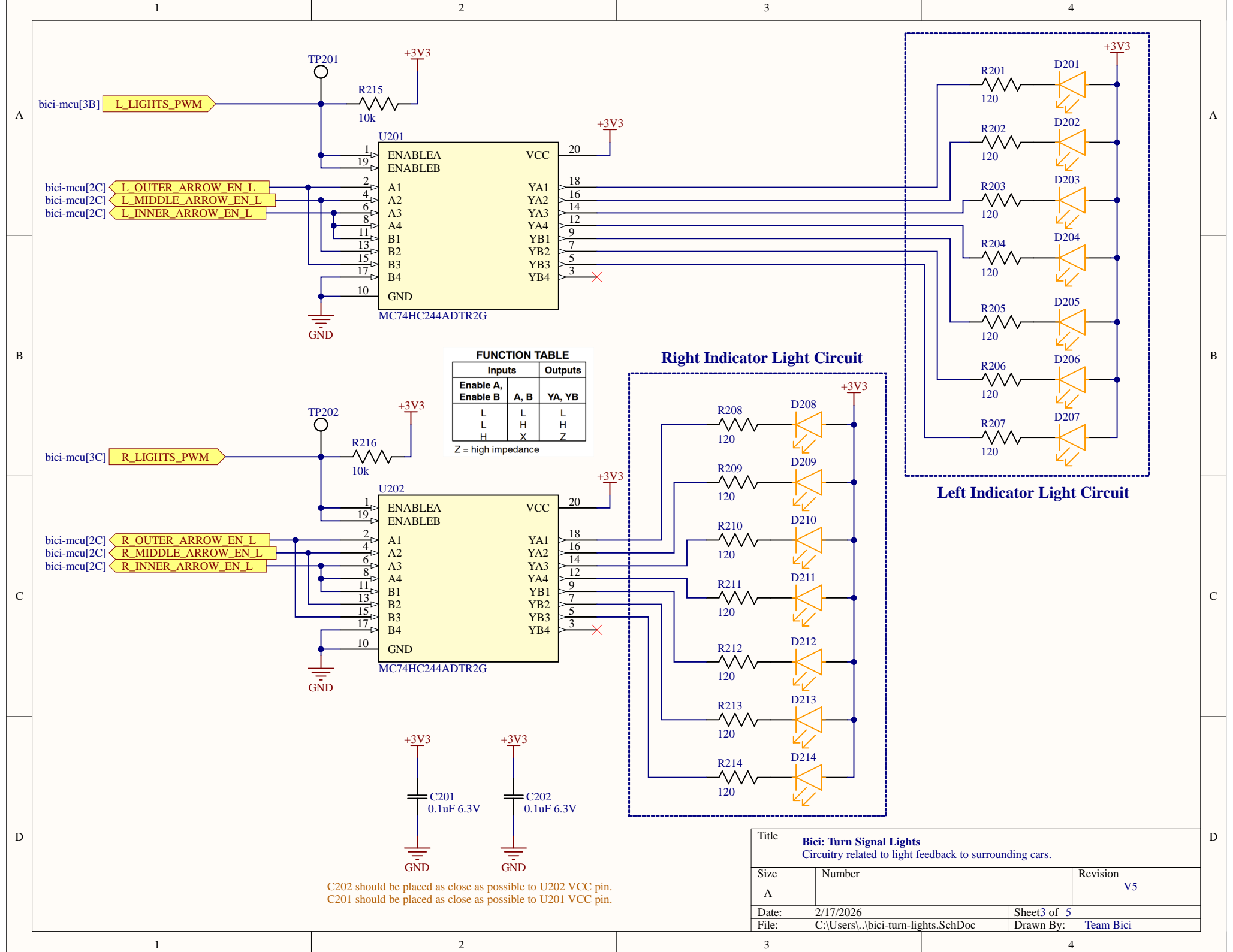


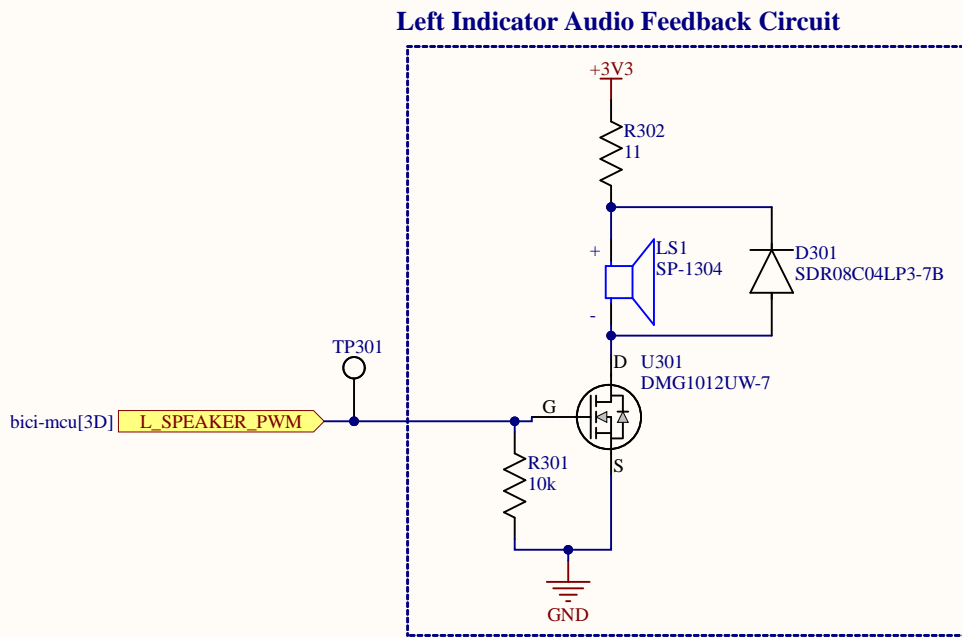
Test Points



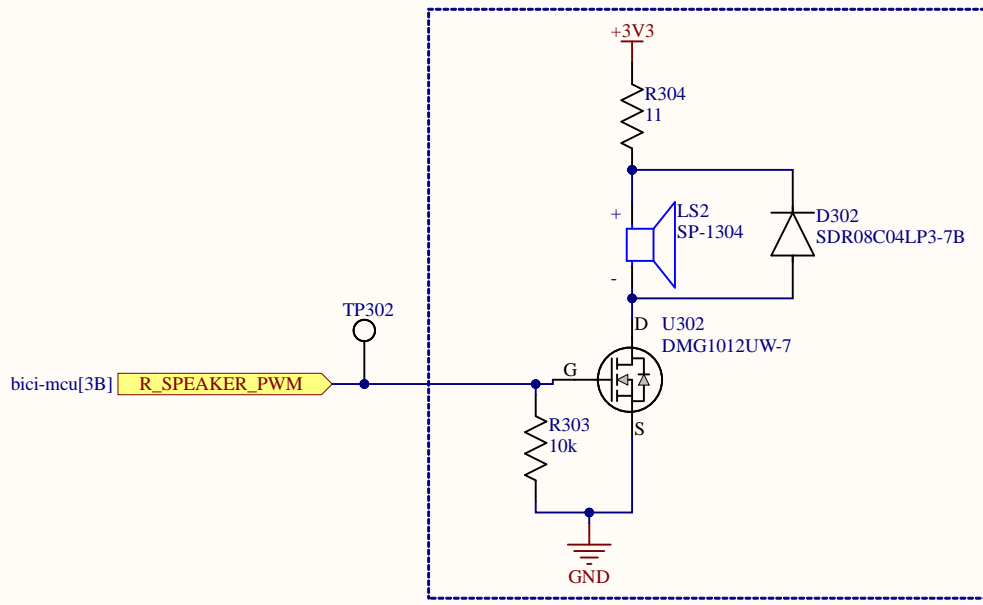
| | | |
|---|--------------------------------|---------------------|
| Title | | |
| Bici: Power Management | | |
| Circuitry related to system power and charging. | | |
| Size | Number | Revision |
| A | | V5 |
| Date: | 2/17/2026 | Sheet1 of 5 |
| File: | C:\Users\...\bici-power.SchDoc | Drawn By: Team Bici |







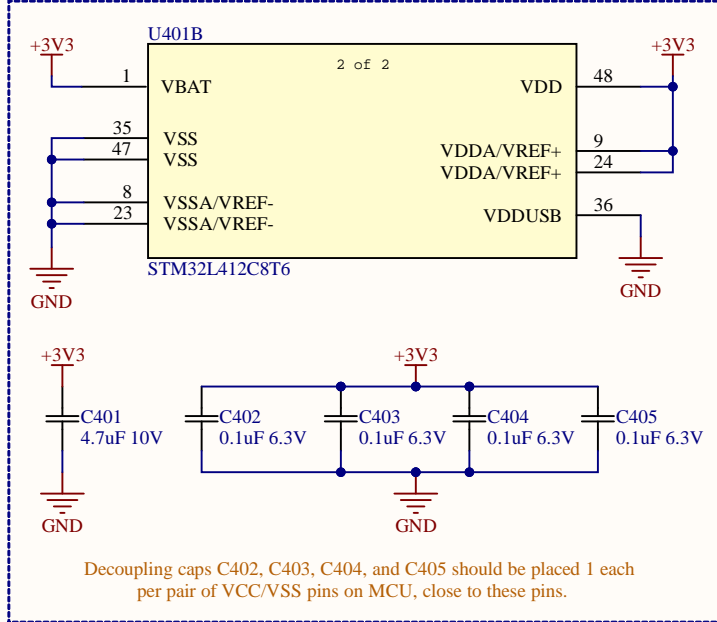
LS1 should be placed at the edge of the PCB on the left arrow point (to accomodate speaker placement in housing).



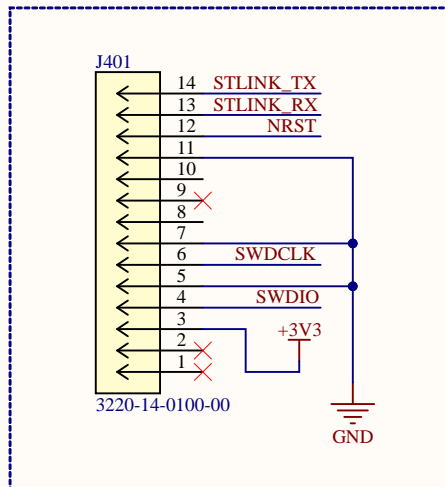
LS2 should be placed at the edge of the PCB on the right arrow point (to accomodate speaker placement in housing).

| | | | | |
|-------|-------------------------------------|--|--|--|
| Title | | | Bici: Turn Signal Audio | |
| | | | Circuitry related to audio feedback to user. | |
| Size | Number | | Revision | |
| A | | | V5 | |
| Date: | 2/17/2026 | | Sheet 4 of 5 | |
| File: | C:\Users\...\bici-turn-audio.SchDoc | | Drawn By: Team Bici | |

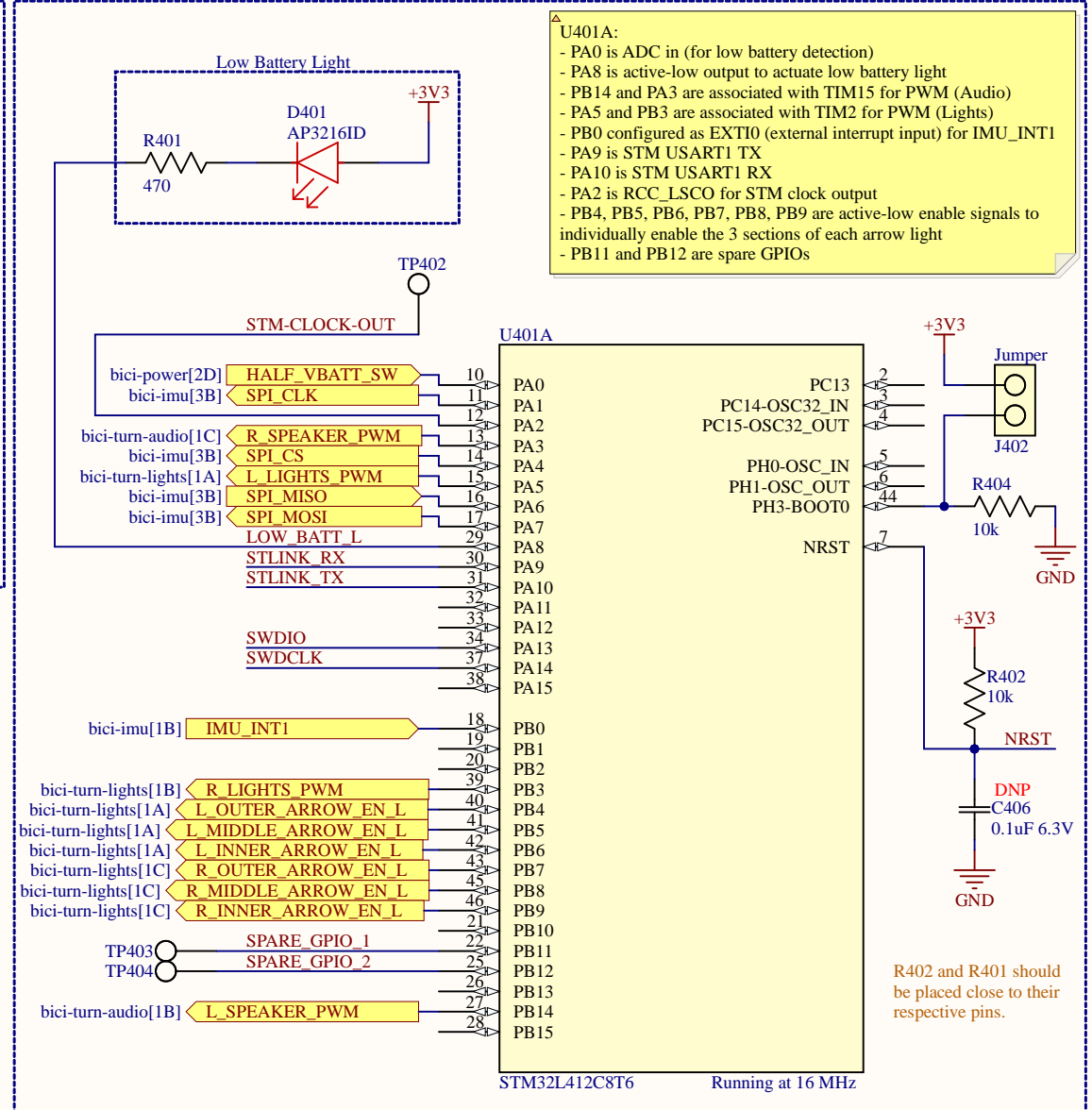
STM Power



Programming/Debugging Connector



STM I/O



| | | | | |
|-------|------------------------------|--|------------------------------------|--|
| Title | | | Bici: MCU | |
| | | | Circuitry related to embedded MCU. | |
| Size | Number | | Revision | |
| A | | | V5 | |
| Date: | 2/17/2026 | | Sheet5 of 5 | |
| File: | C:\Users\...\bici-mcu.SchDoc | | Drawn By: Team Bici | |

