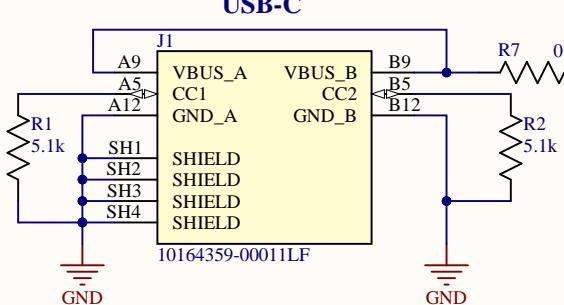
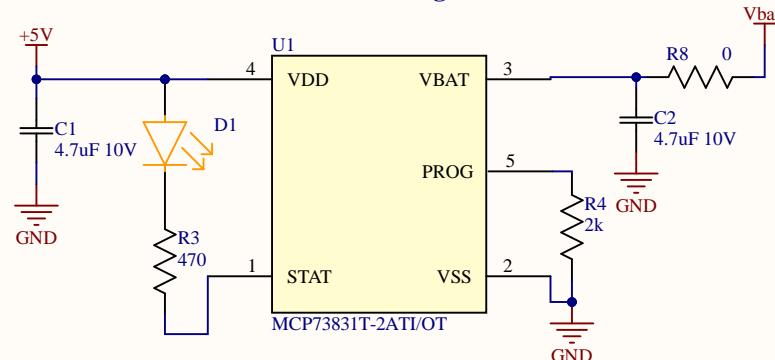




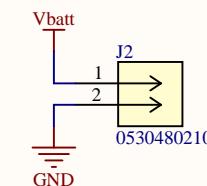
USB-C



Power Charger



Li Ion Battery
LP384260JU+PCM+MOLEX 51021-0200 35MM

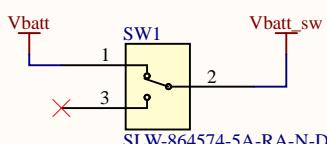


B

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

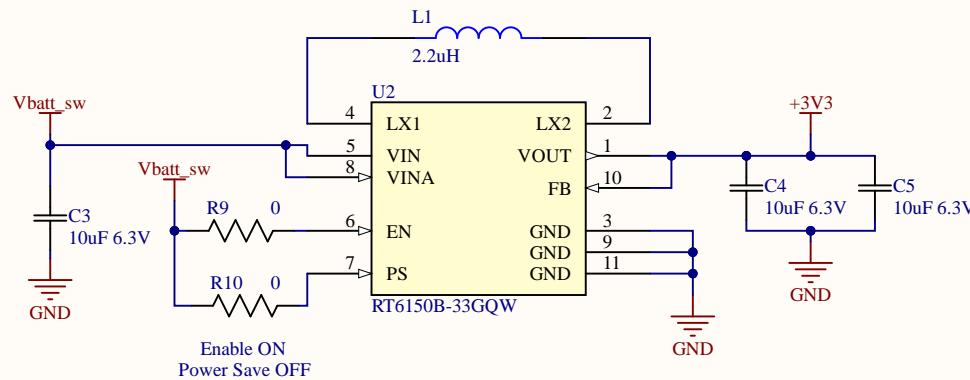
B

Power Switch

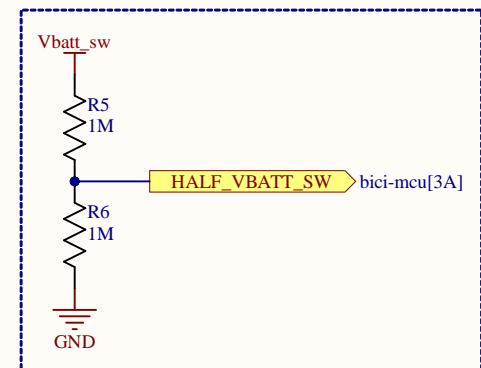


Switch in L position: ON
Switch in R positon: OFF

Buck-Boost

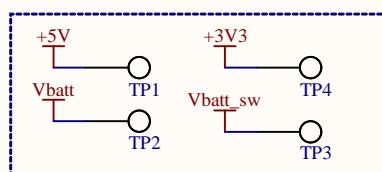


Low Power Detection



D

Test Points



¹ 2 3 4

| | | |
|-------|--|---------------------|
| Title | Bici: Power Management Circuitry related to system power and charging. | |
| Size | Number | Revision |
| A | | V2 |
| Date: | 11/19/2025 | Sheet1 of 5 |
| File: | C:\Users\...\bici-power.SchDoc | Drawn By: Team Bici |

A

A

B

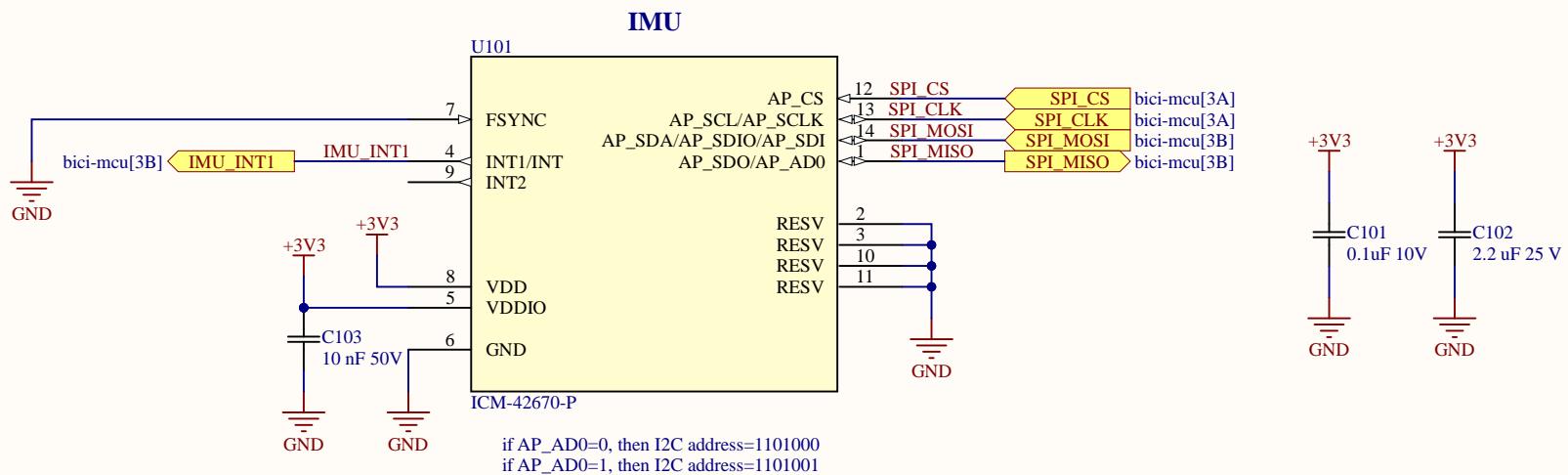
B

C

C

D

D



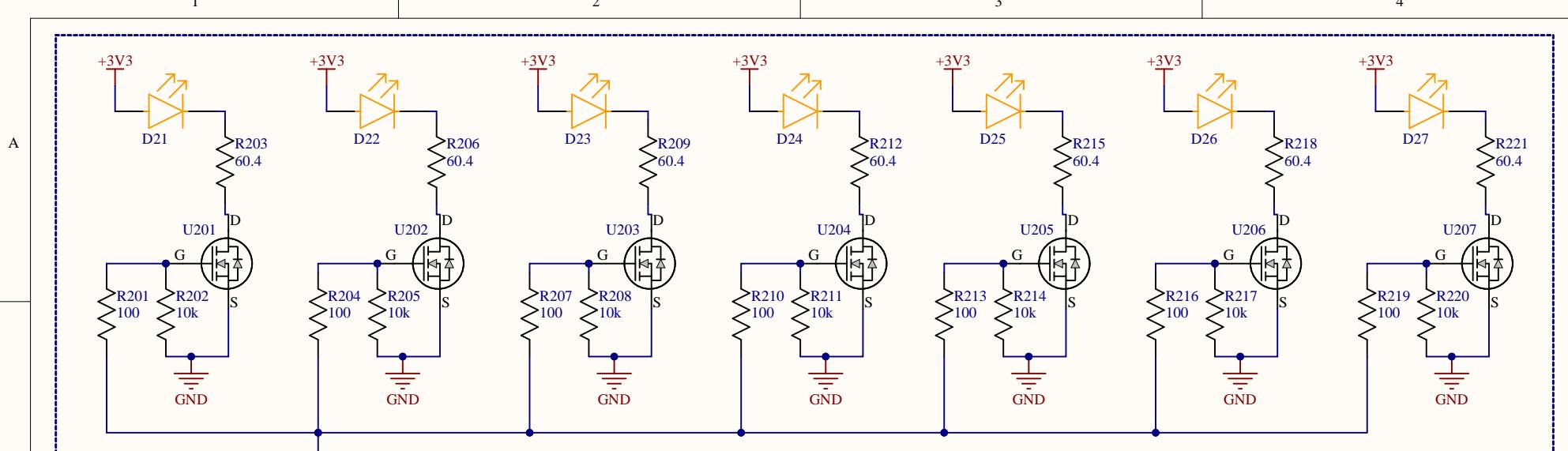
| | | |
|--|---------------------|----------------|
| Title Bici: IMU Circuitry related IMU. | | |
| Size A | Number | Revision V2 |
| Date: 11/19/2025 | Sheet 2 of 5 | |
| File: C:\Users\.\bici-imu.SchDoc | Drawn By: Team Bici | |

1

2

3

4



Left Indicator Light Circuit

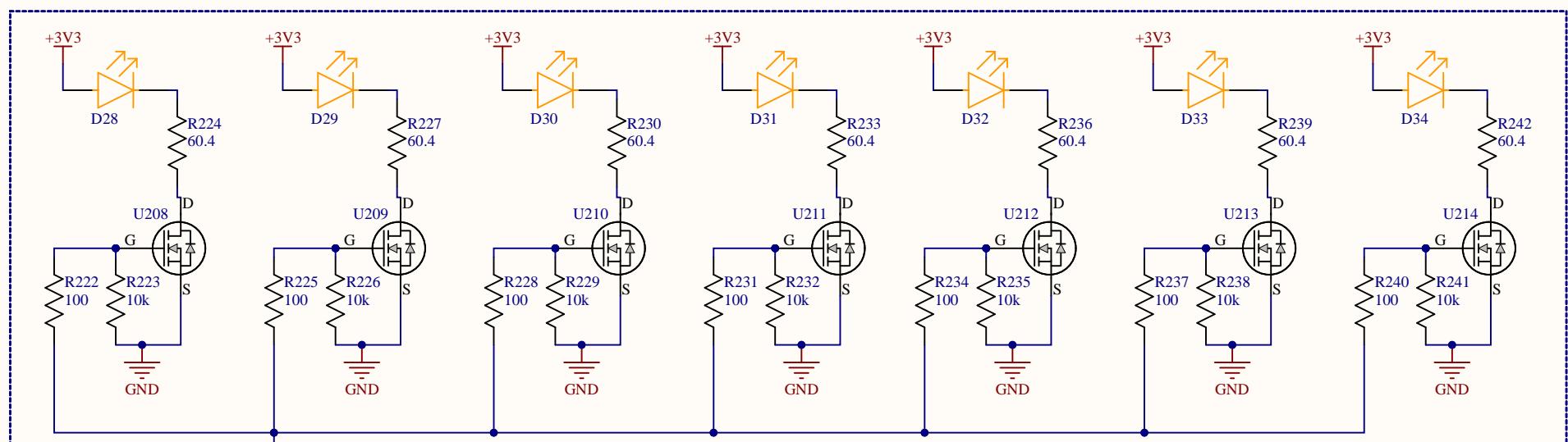
bici-mcu[3B] Left-Lights-PWM → TP201

C

2

3

4



Right Indicator Light Circuit

bici-mcu[3B] Right-Lights-PWM → TP202

| Title Bici: Turn Signal Lights Circuitry related to light feedback to user and surrounding cars. | | |
|--|-----------|----------------|
| Size A | Number | Revision V2 |
| Date: 11/19/2025 | | Sheet 3 of 5 |
| File: C:\Users\...\bici-turn-lights.SchDoc | Drawn By: | Team Bici |

1

2

3

4

A

A

B

B

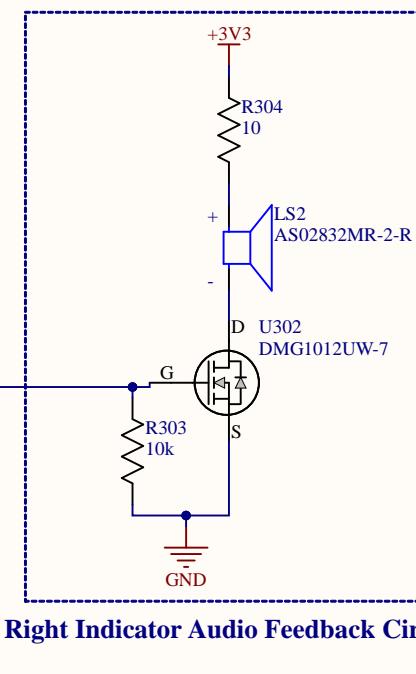
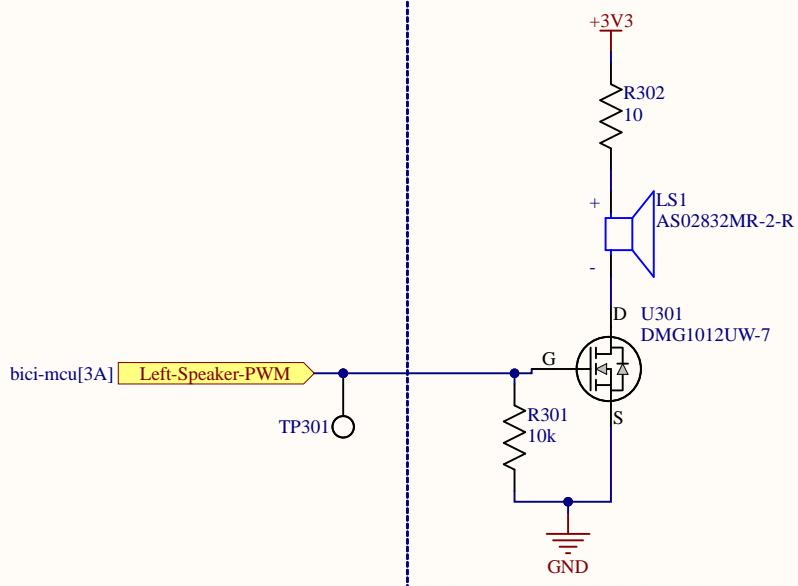
C

C

D

D

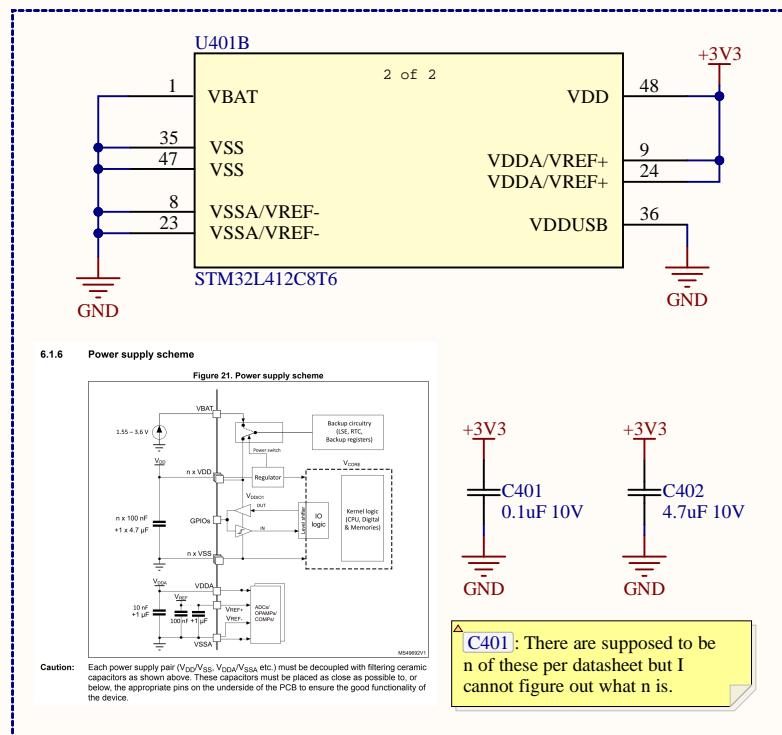
Left Indicator Audio Feedback Circuit



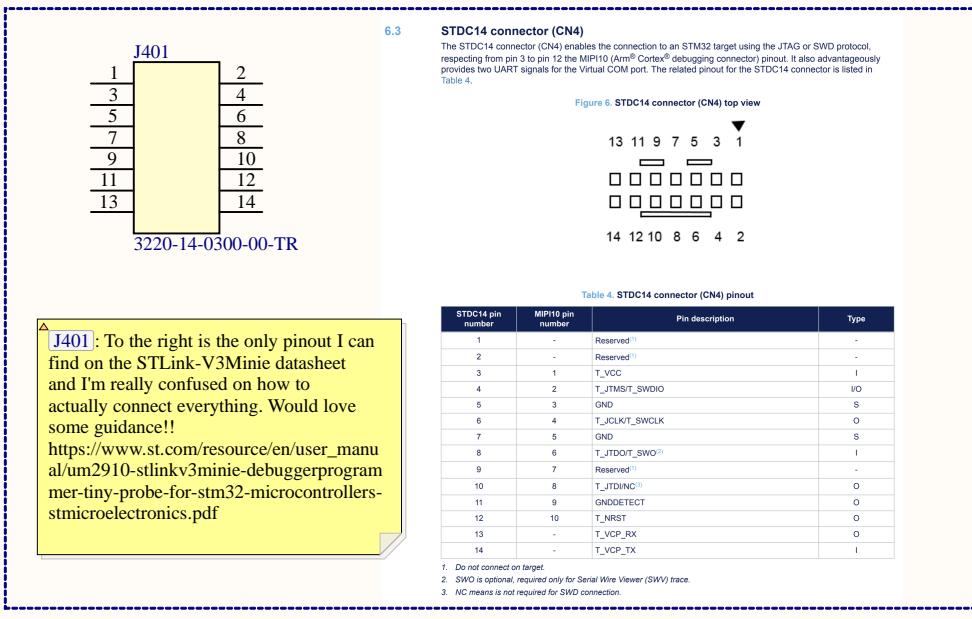
Right Indicator Audio Feedback Circuit

| | | |
|--|--------------|----------------|
| Title Bici: Turn Signal Audio Circuitry related to audio feedback to user. | | |
| Size A | Number | Revision V2 |
| Date: 11/19/2025 | Sheet 4 of 5 | |
| File: C:\Users\.\bici-turn-audio.SchDoc | Drawn By: | Team Bici |

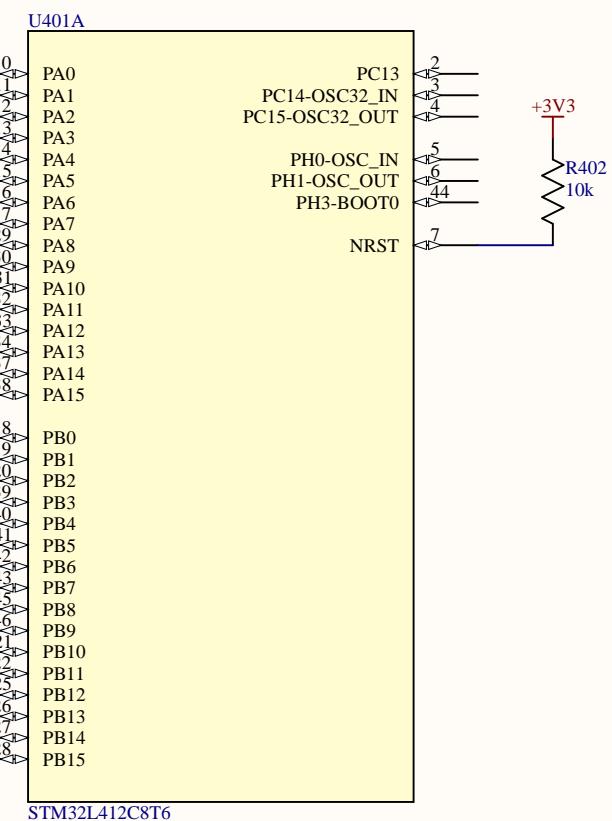
STM Power



Programming/Debugging Connector



STM I/O



U401A:

- PA0 is ADC in (for low battery detection)
- PA8 is active-low output for low battery light
- PA2 and PA3 are associated with TIM15 for PWM
- PA5 and PB3 are associated with TIM2 for PWM
- PB0 configured as EXTI0 (external interrupt input) for IMU_INT1

Title **Bici: MCU**
Circuitry related to embedded MCU.

| Size | Number | Revision |
|-------|------------------------------|---------------------|
| A | | V2 |
| Date: | 11/19/2025 | Sheet 5 of 5 |
| File: | C:\Users\...\bici-mcu.SchDoc | Drawn By: Team Bici |