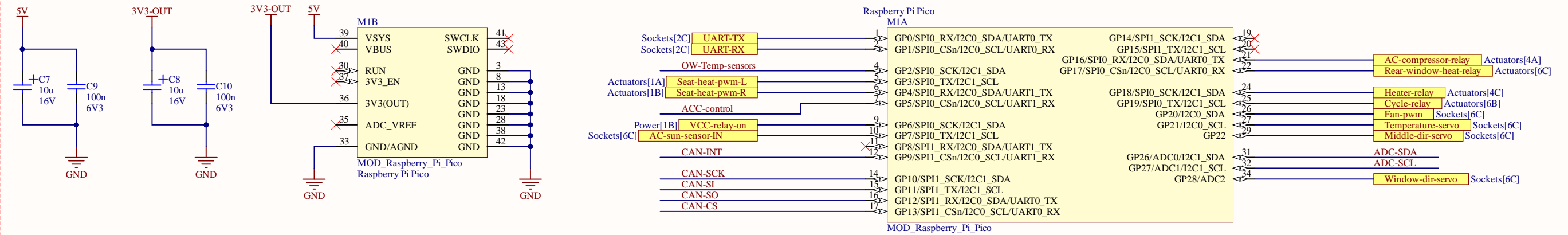
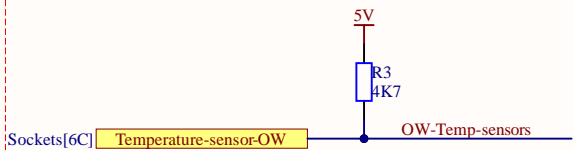


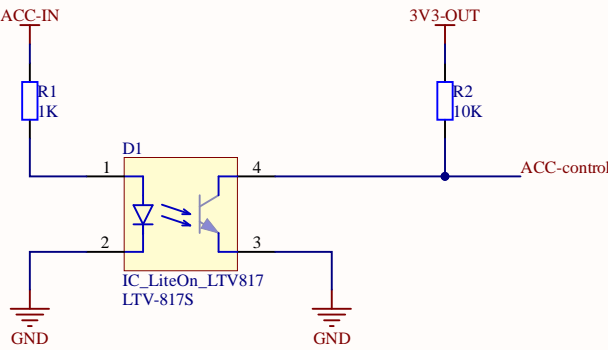
Raspberry Pi Pico



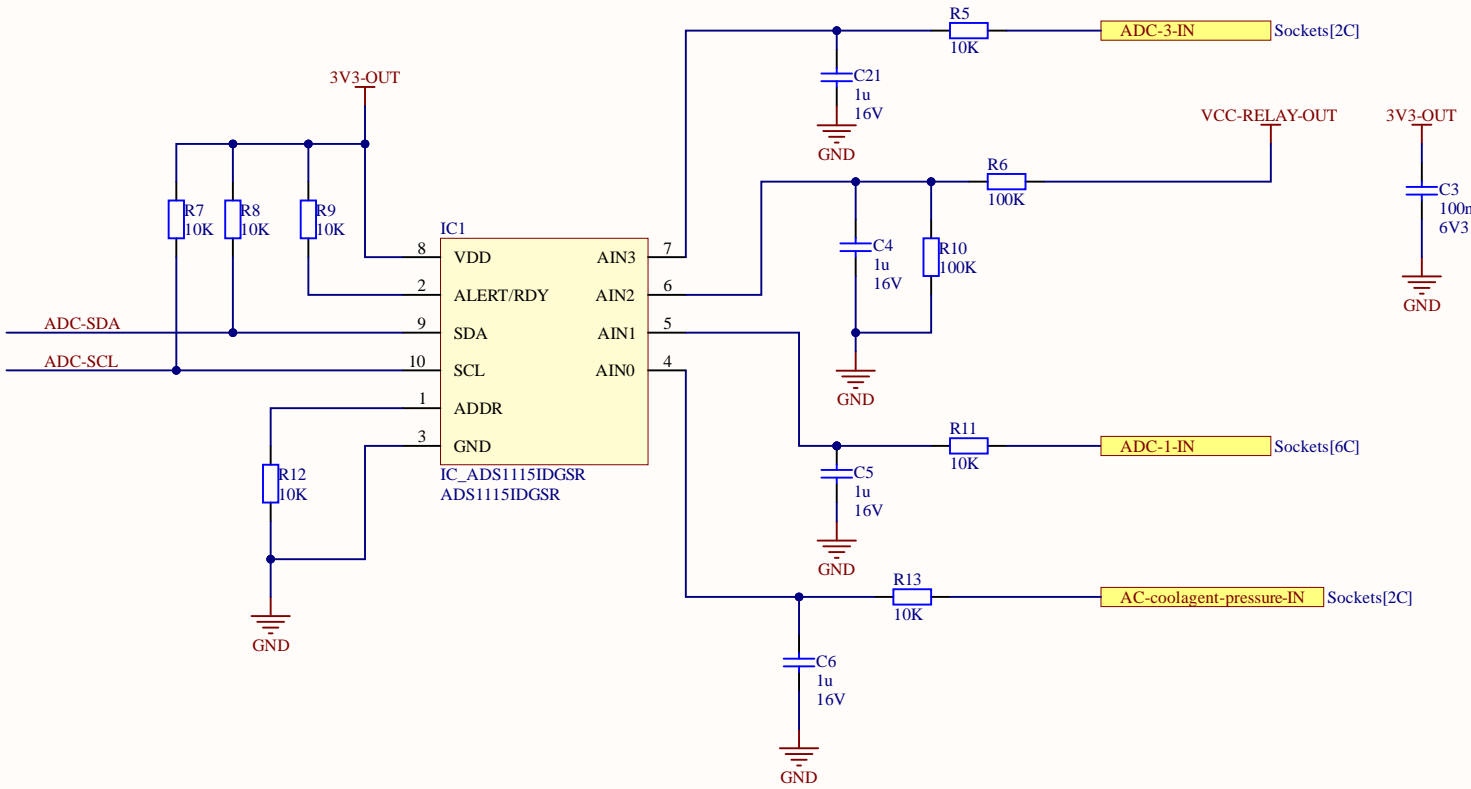
Temperature Sensors



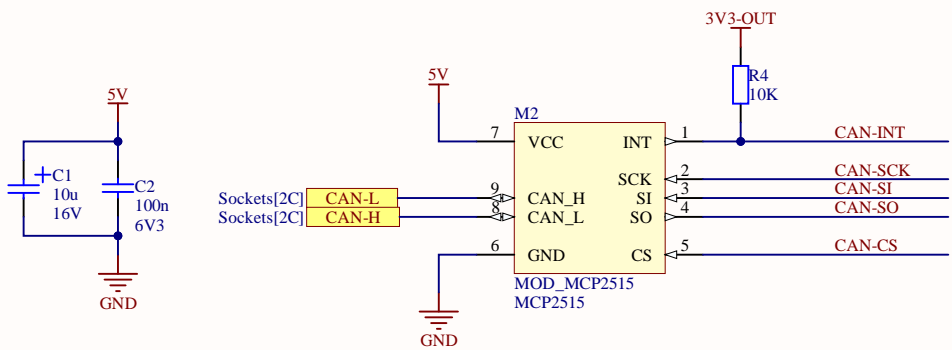
ACC Voltage control



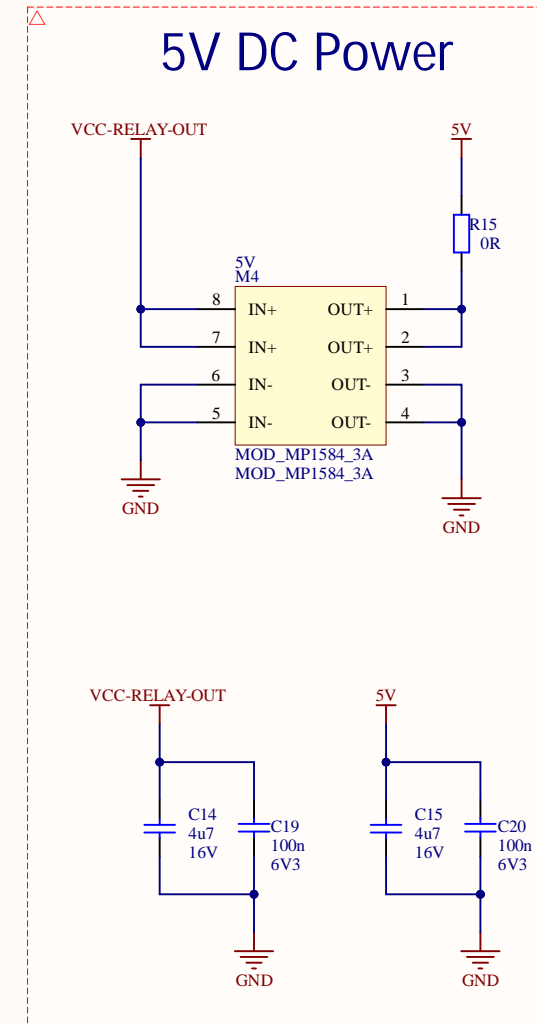
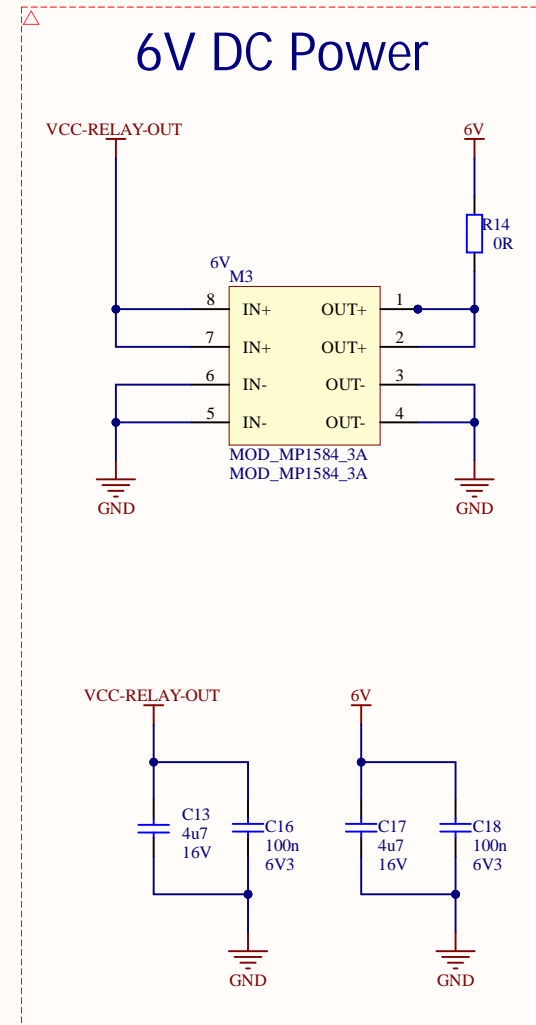
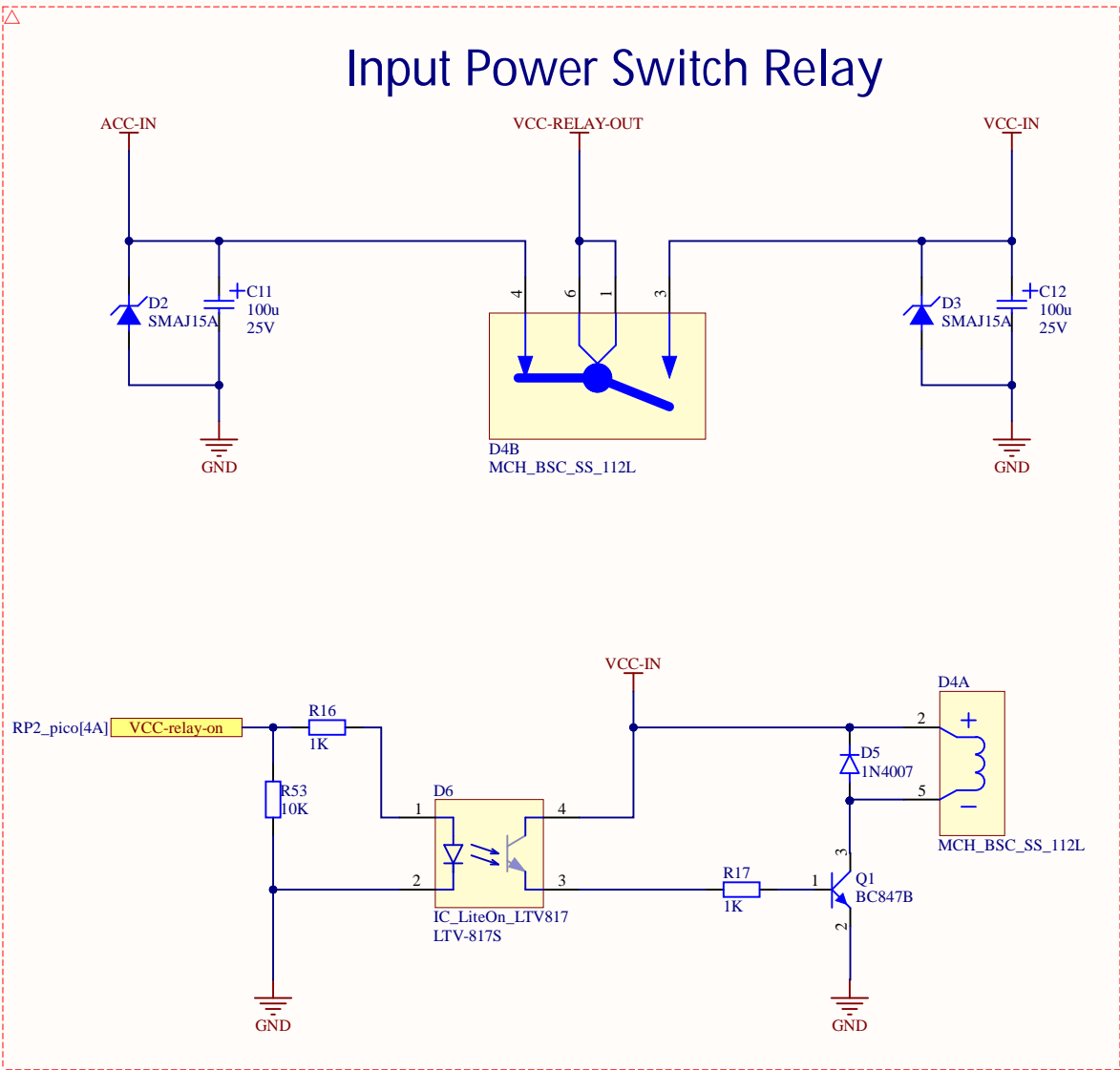
Sun, Coolagent pressure, DC voltage sensors



CAN Module



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Title		
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Driver Seat Heating

RP2_pico[4A] **Seat-heat-pwm-L**

R18 100R

R47 10K

GND

D7

IC_LiteOn_LTV8175

R21 100R

R22 10K

GND

Q3 2N7002BKW

R20 100R

Q2 AOD403

R19 10K

SEAT-HEAT-L-IN

Heat-L-out

Seat-heat-L-out Sockets[3B]

GND

AC Comperssor Relay

The diagram illustrates the electrical control of an AC compressor relay. It is divided into two main sections: a control circuit and a power circuit.

Control Circuit:

- A microcontroller, labeled `RP2_pico[7A]`, provides a control signal to the relay coil (D11, LTV-817S) through a resistor `R23` (1K).
- The relay coil is connected to ground (GND) through a resistor `R48` (10K).

Power Circuit:

- The power supply (`VCC-IN`) is connected to the relay contacts (D10, 1N4007) through a resistor `R24` (1K).
- The relay contacts are connected to the AC compressor (MCH_BSC_SS_112L) and ground (GND).

Relay and Compressor:

- The relay is represented by a yellow box labeled `D8B MCH_BSC_SS_112L`.
- The AC compressor is represented by a yellow box labeled `D8A MCH_BSC_SS_112L`.

[illegible]

Passanger Seat Heating

The diagram illustrates a circuit for passenger seat heating. It features a microcontroller (RP2_pico[4A]) connected to a relay (D12) and a temperature sensor (RP2_pico[4A]). The relay is controlled by a 5V signal (V5) through a 100K resistor (R26). The relay's output is connected to a 12V supply (V12) through a 100K resistor (R27). The relay's output is also connected to a 12V supply (V12) through a 100K resistor (R29). The relay's output is connected to a 12V supply (V12) through a 100K resistor (R30). The relay's output is connected to a 12V supply (V12) through a 100K resistor (R31). The relay's output is connected to a 12V supply (V12) through a 100K resistor (R31). The relay's output is connected to a 12V supply (V12) through a 100K resistor (R31).

Heater Valve Relay

The diagram illustrates the electrical control of a heater valve relay. It features a microcontroller pin (RP2_pico[7A]) driving a transistor (BC847B) through a 1K resistor (R32). The transistor's emitter is grounded via a 10K resistor (R51). The collector is connected to a 1K resistor (R33) and a 1N4007 diode (D16), which is in series with the relay coil. The other end of the diode is connected to VCC-IN. The relay assembly (D15B MCH_BSC_SS_112L) has its coil connected to VCC-IN and its common terminal connected to a 6C socket labeled 'Heater-relay-OUT'. The relay also has a normally open contact connected to a 6C socket labeled 'Sockets[6C]'.

Rear Window Heat Relay

The diagram illustrates the electrical connection for a Rear Window Heat Relay. It consists of two main parts: a control circuit and a relay assembly.

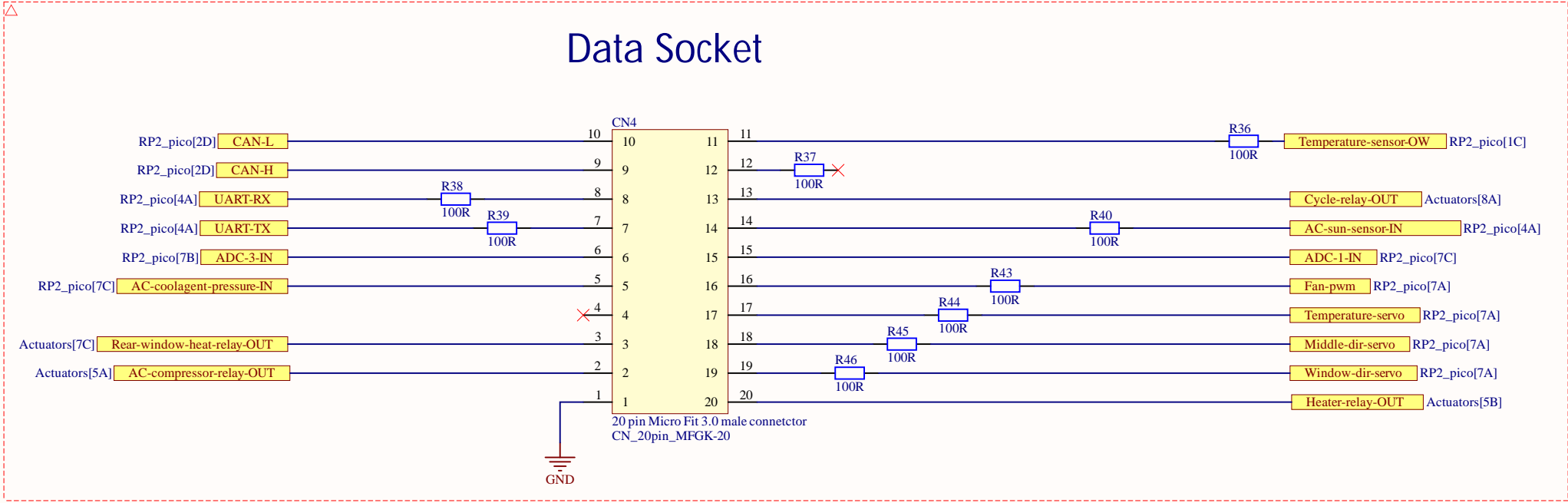
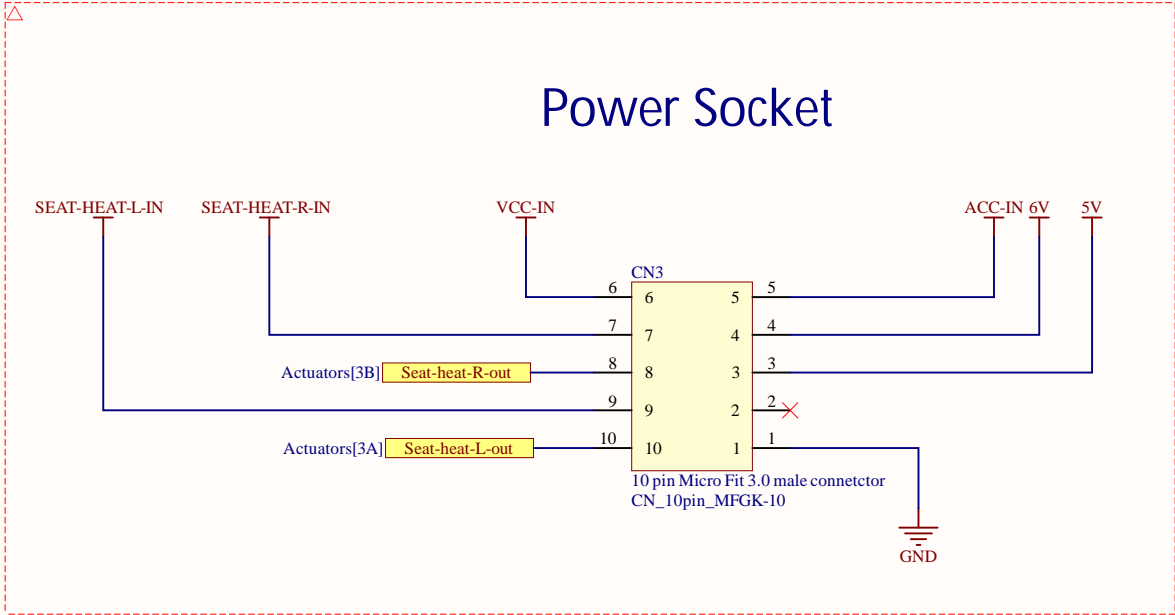
Control Circuit:

- The microcontroller **RP2_pico[7A]** provides a control signal to the relay coil **D18A** (MCH_BSC_SS_112L) through a transistor **Q9** (BC847B) and a diode **D19** (1N4007).
- The relay coil is connected to **VCC-IN** and **GND**.
- The transistor **Q9** is connected to **VCC-IN** and **GND**.
- The diode **D19** is connected to **VCC-IN** and **GND**.
- The relay coil is connected to **VCC-IN** and **GND**.

Relay Assembly:

- The relay assembly **D18B** (MCH_BSC_SS_112L) has four pins: 4, 6, 1, and 5.
- Pin 4 is connected to **GND**.
- Pin 6 is connected to **VCC-IN**.
- Pin 1 is connected to the common terminal of the relay.
- Pin 5 is connected to the output terminal of the relay.
- The output terminal of the relay is connected to a socket **Sockets[2C]**.

Title		
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Title		
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