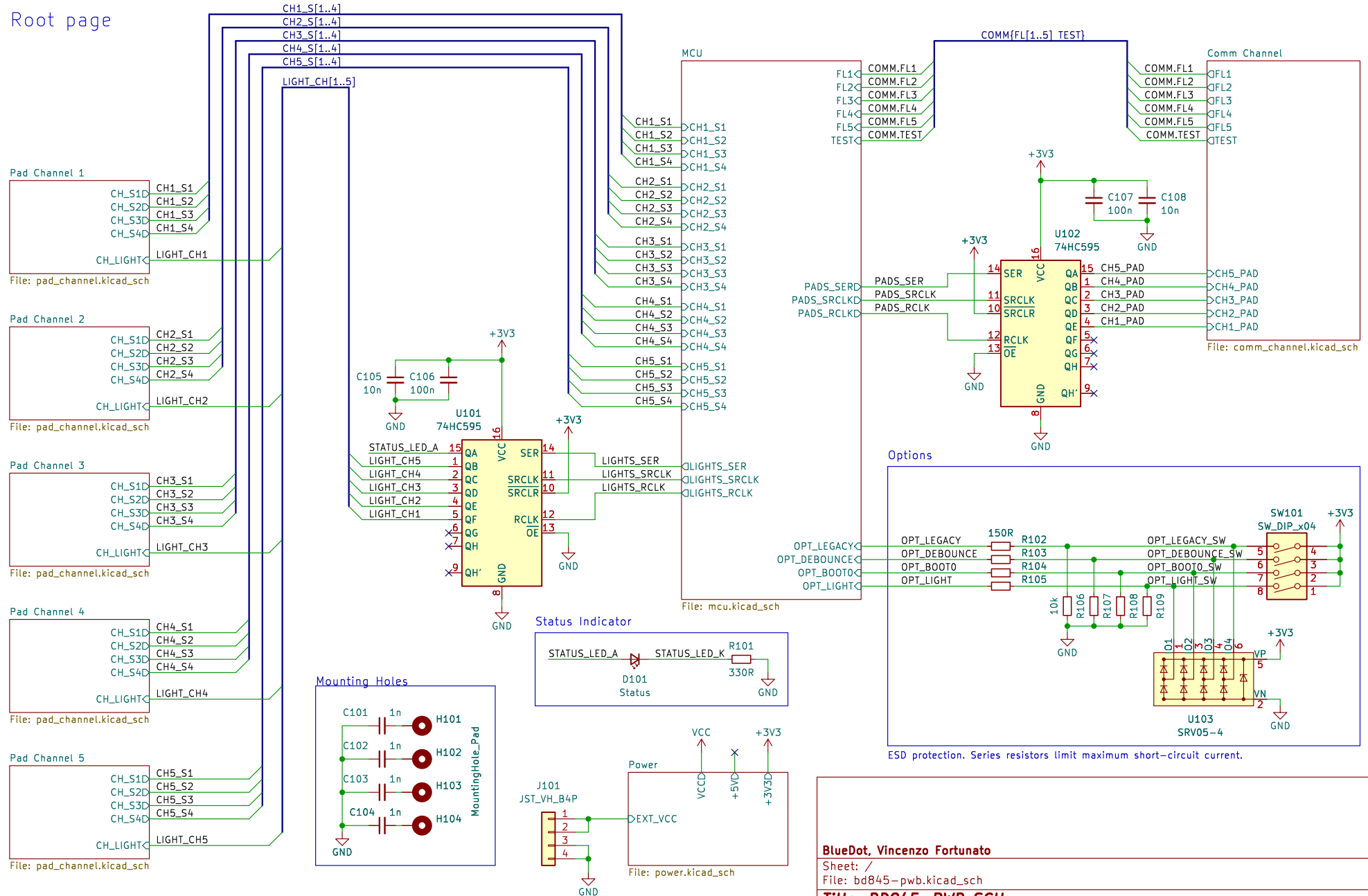
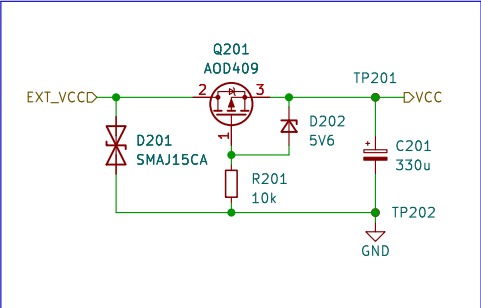


Root page



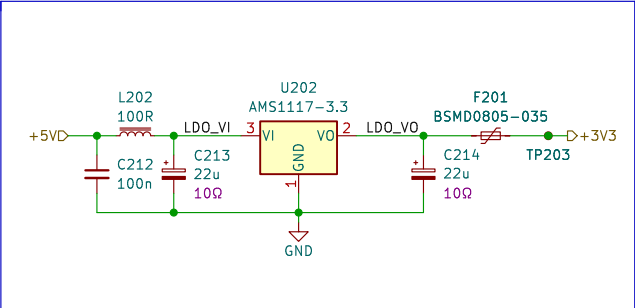
Power

VCC Supply



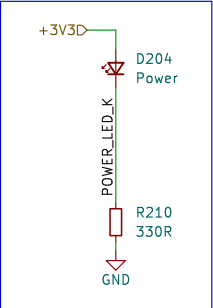
ESD Protection and reverse polarity protection.

+3V3 LDO linear regulator

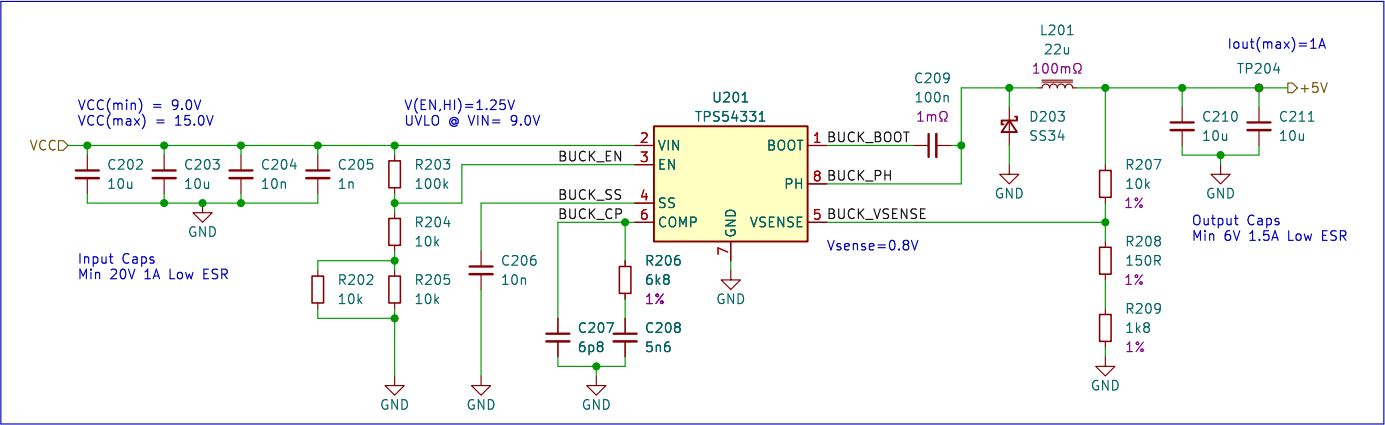


Use tantalum caps with $0.2\Omega < \text{ESR} < 22\Omega$.

Power Indicator



+5V Switching regulator



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Sheet: /Power/
File: power.kicad_sch

Title: **BD845-PWB SCH**

Size: A4 Date: 2022-11-27

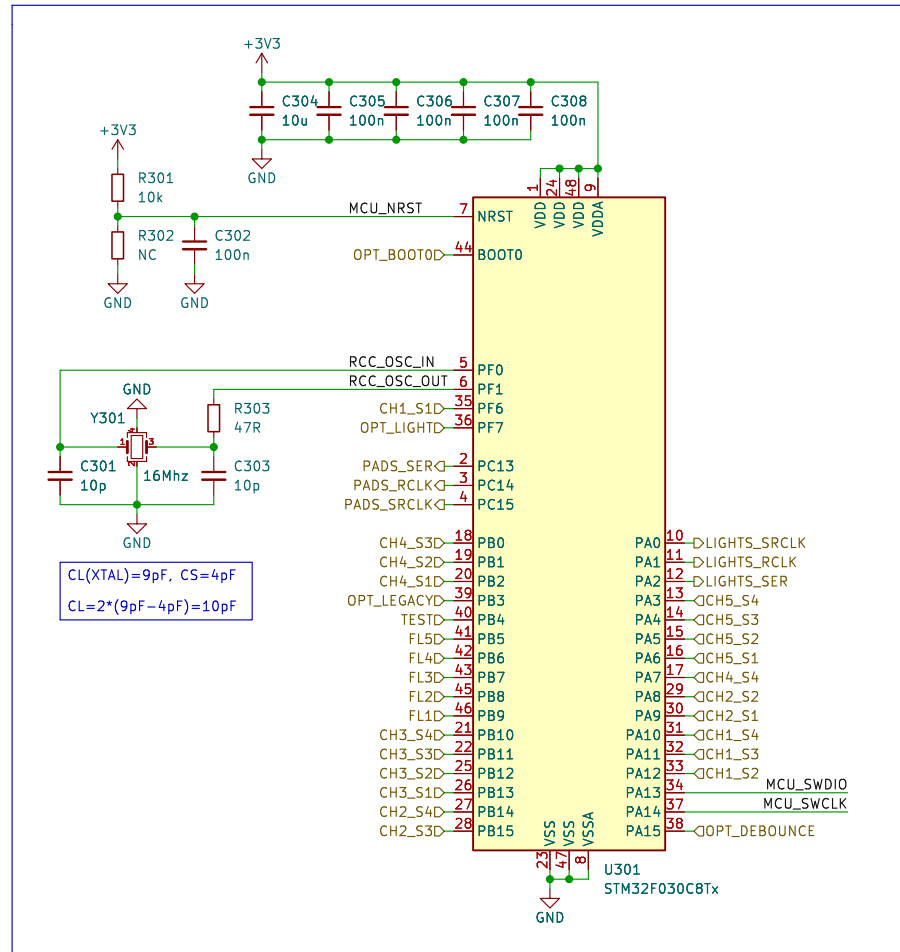
KiCad E.D.A. kicad 7.0.2

Rev: **1.0.0**

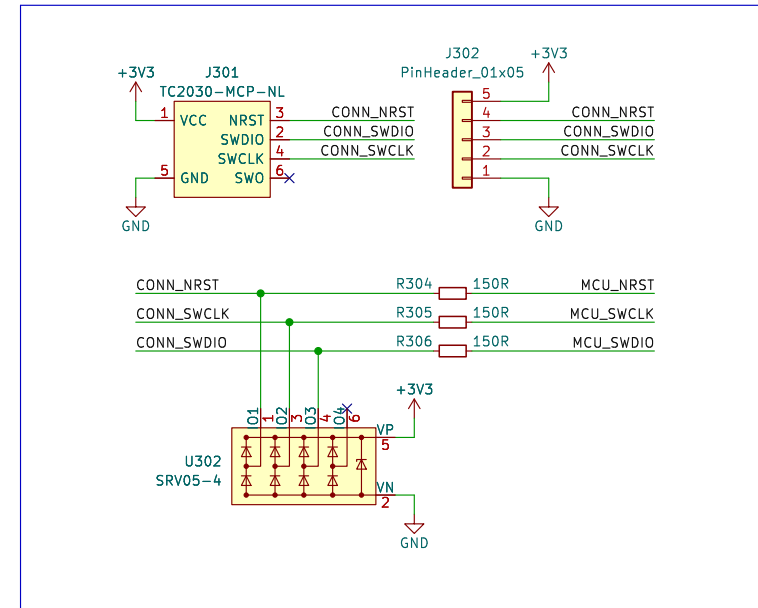
Id: 2/9

Microcontroller Unit

MCU



Debug Header SWD



SWD Tag-Connect TC2030-MCP-NL and redundant PinHeader_01x05. Series resistors limit maximum short-circuit current.

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Sheet: /MCU/
File: mcu.kicad_sch

Title: BD845-PWB SCH

Size: A4 Date: 2022-11-27

KiCad E.D.A. kicad 7.0.2

Rev: 1.0.0

Id: 3/9

A

B



D

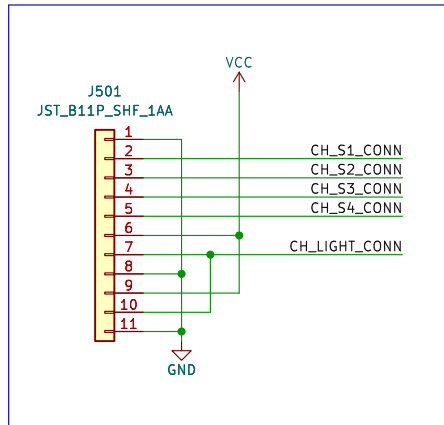


B

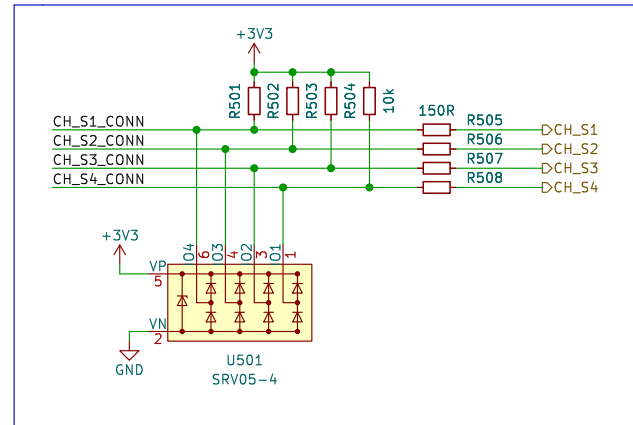


Pad Channel

Pad channel connector

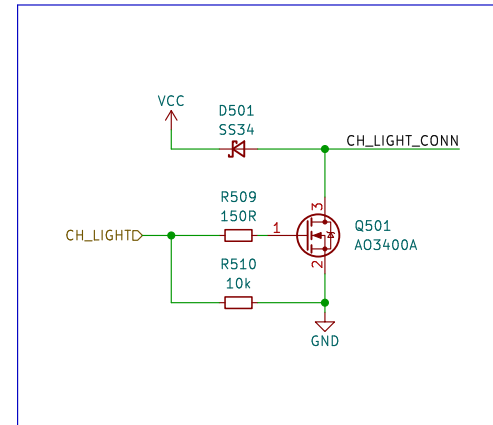


Pad channel sensor inputs



ESD Protection. Series resistors limit maximum short-circuit current.

Pad channel light control



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Sheet: /Pad Channel 1/
File: pad_channel.kicad_sch

Title: BD845-PWB SCH

Size: A4 Date: 2022-11-27

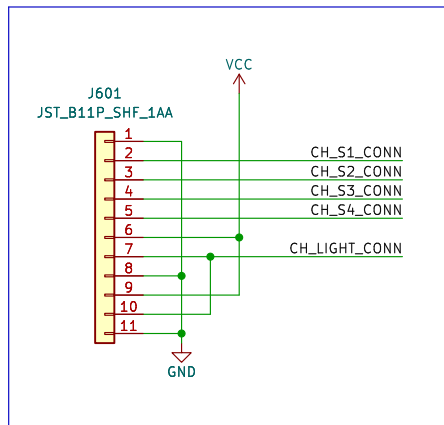
KiCad E.D.A. kicad 7.0.2

Rev: 1.0.0

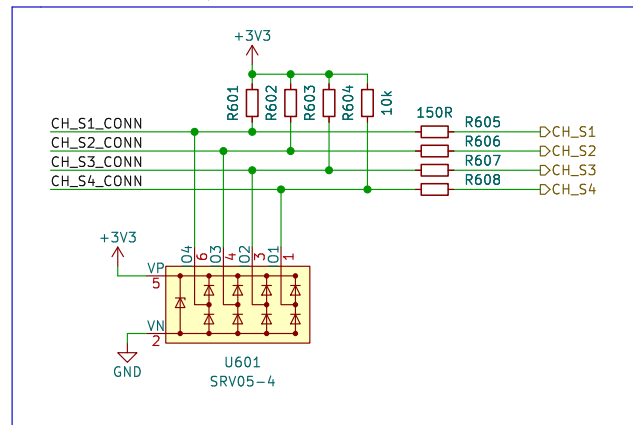
Id: 5/9

Pad Channel

Pad channel connector

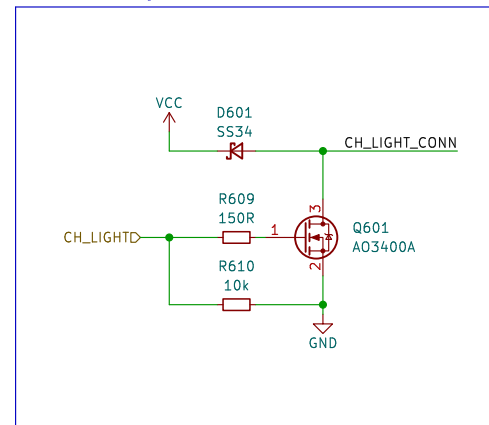


Pad channel sensor inputs



ESD Protection. Series resistors limit maximum short-circuit current.

Pad channel light control



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Sheet: /Pad Channel 2/
File: pad_channel.kicad_sch

Title: BD845-PWB SCH

Size: A4 Date: 2022-11-27

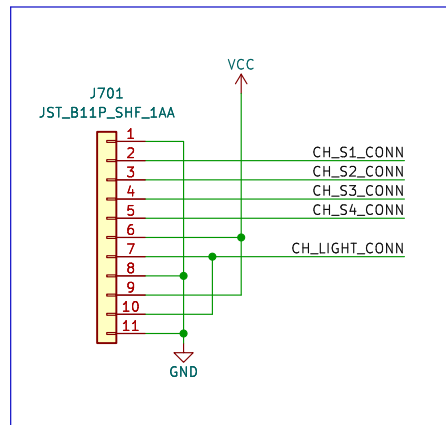
KiCad E.D.A. kicad 7.0.2

Rev: 1.0.0

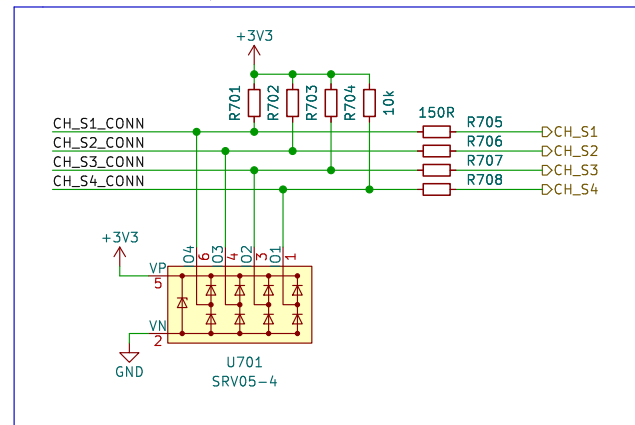
Id: 6/9

Pad Channel

Pad channel connector

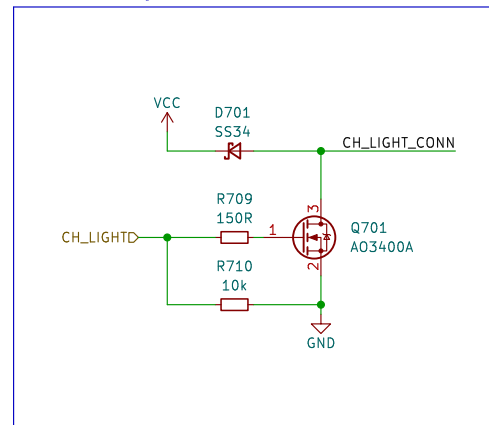


Pad channel sensor inputs



ESD Protection. Series resistors limit maximum short-circuit current.

Pad channel light control



BlueDot, Vincenzo Fortunato

Sheet: /Pad Channel 3/
File: pad_channel.kicad_sch

Title: BD845-PWB SCH

Size: A4 Date: 2022-11-27

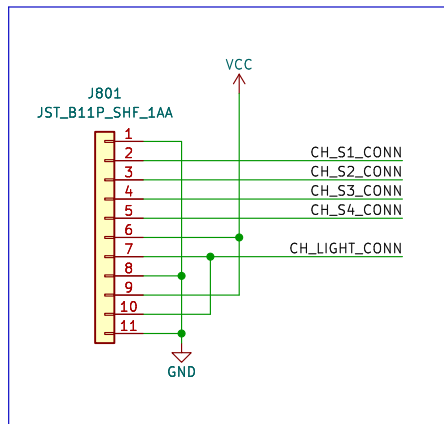
KiCad E.D.A. kicad 7.0.2

Rev: 1.0.0

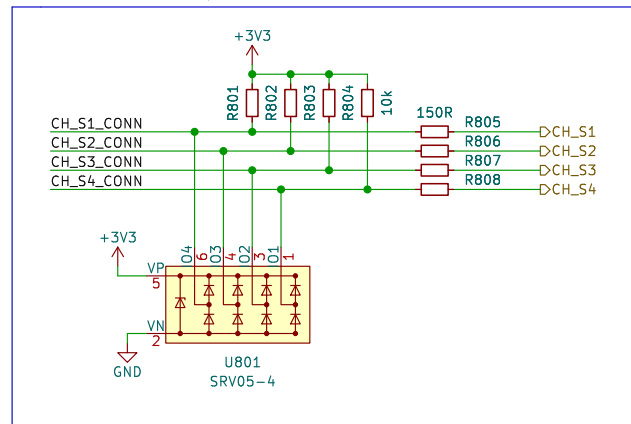
Id: 7/9

Pad Channel

Pad channel connector

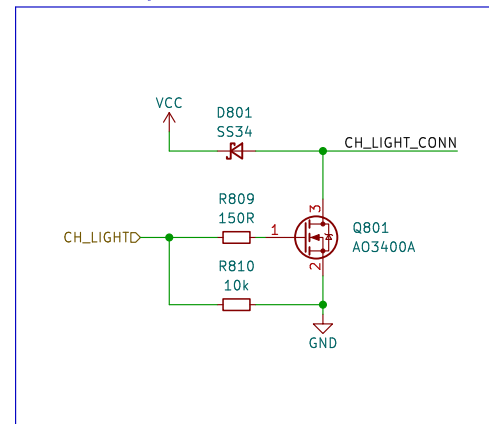


Pad channel sensor inputs



ESD Protection. Series resistors limit maximum short-circuit current.

Pad channel light control



BlueDot, Vincenzo Fortunato

Sheet: /Pad Channel 4/
File: pad_channel.kicad_sch

Title: BD845-PWB SCH

Size: A4 Date: 2022-11-27

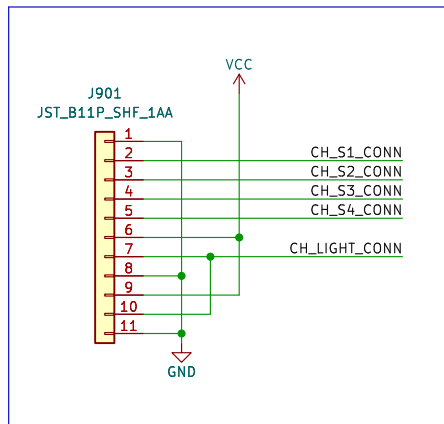
KiCad E.D.A. kicad 7.0.2

Rev: 1.0.0

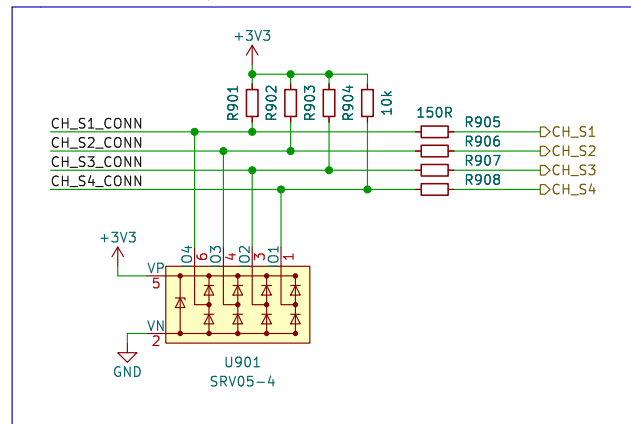
Id: 8/9

Pad Channel

Pad channel connector

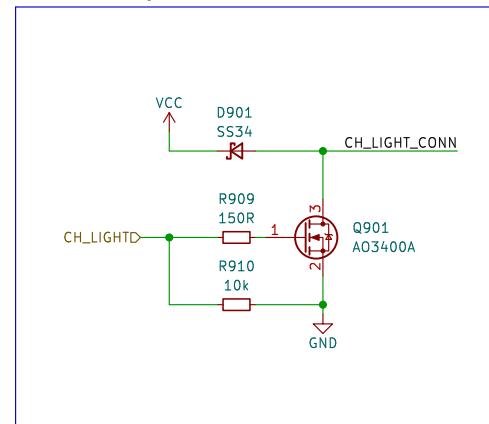


Pad channel sensor inputs



ESD Protection. Series resistors limit maximum short-circuit current.

Pad channel light control



BlueDot, Vincenzo Fortunato

Sheet: /Pad Channel 5/
File: pad_channel.kicad_sch

Title: BD845-PWB SCH

Size: A4 Date: 2022-11-27

KiCad E.D.A. kicad 7.0.2

Rev: 1.0.0

Id: 9/9