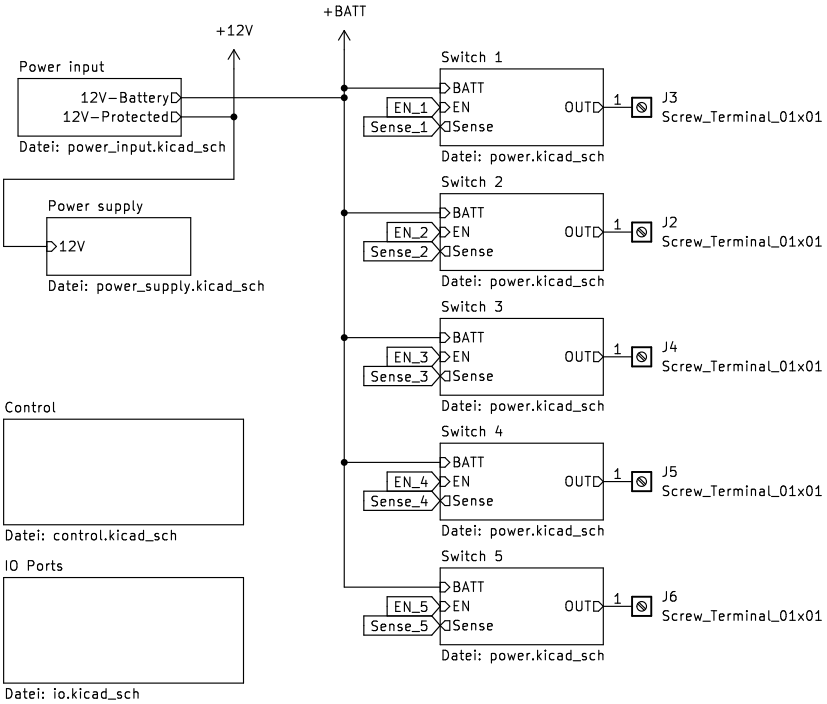


H1 MountingHole

H2 MountingHole

H3 MountingHole

H4 MountingHole

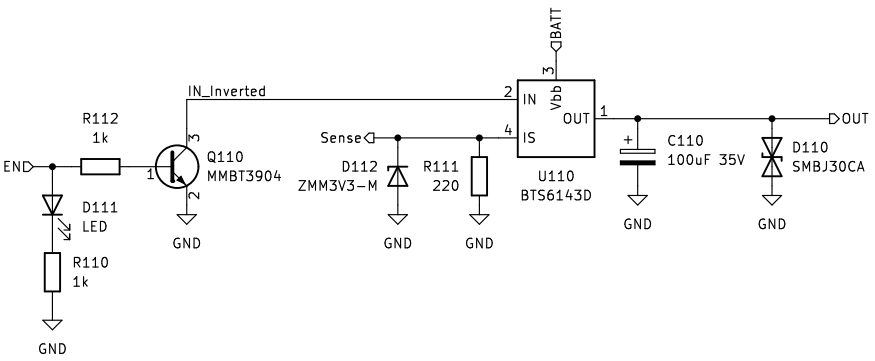
Raphael Peters

Sheet: /

File: buslight.kicad_sch

Title: Power distribution module

Size: A5	Date: 2023-07-18	**Rev:**
KiCad E.D.A. kicad 7.0.5-0		Id: 1/10



Under higher current (>2.5A) and room temperature (25°C), the typical current sense ratio is 9700.

So the voltage on Sense for each Ampere is about

$U = R*I / 9700 = 220\Omega * 1A / 9700 = 0.02268V$

The typical current on fault conditions is I_{fault} = 5.2mA, so

$U_{fault} = 220\Omega * 5.2mA = 1.144V$

The maximum sense current is 7.5mA, so

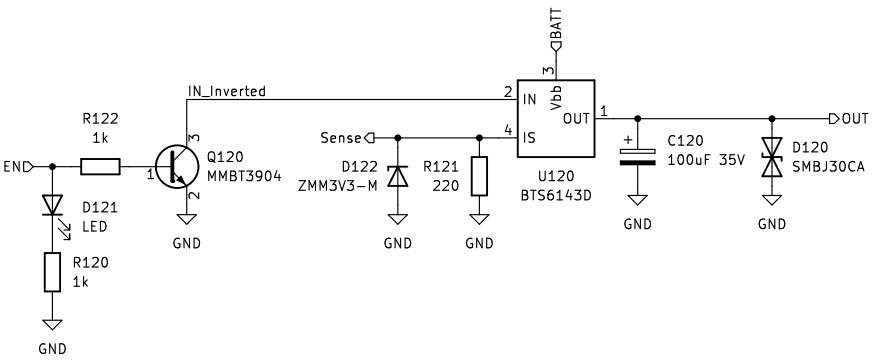
$U_{max} = 220\Omega * 7.5mA = 1.65V$

Raphael Peters

Sheet: /Switch 1/
File: power.kicad_sch

Title: Power distribution module

Size: A5	Date: 2023-07-18	**Rev:**
KiCad E.D.A. kicad 7.0.5-0		Id: 2/10



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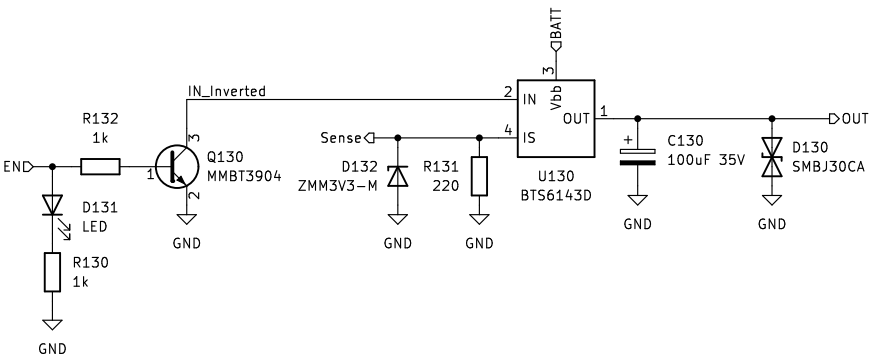
Raphael Peters		
Sheet: /Switch 2/ File: power.kicad_sch		
Title: Power distribution module		
Size: A5	Date: 2023-07-18	**Rev:**
KiCad E.D.A. kicad 7.0.5-0		Id: 3/10



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$U = R*I / 9700 = 220\Omega * 1A / 9700 = 0.02268V$

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The maximum sense current is 7.5mA, so

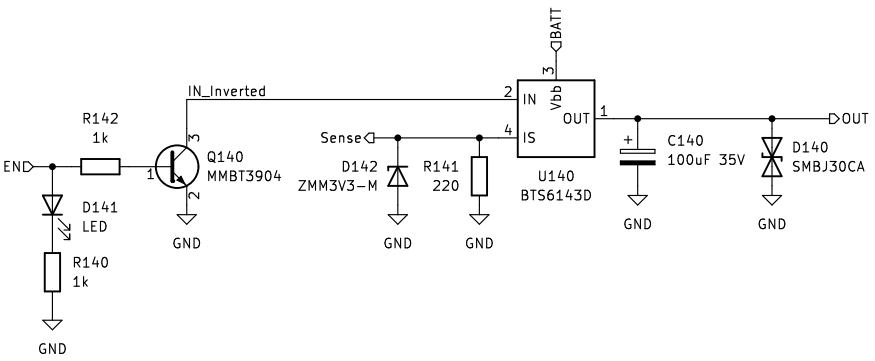
$U_{max} = 220\Omega * 7.5mA = 1.65V$

Raphael Peters

Sheet: /Switch 3/
File: power.kicad_sch

Title: Power distribution module

Size: A5	Date: 2023-07-18	**Rev:**
KiCad E.D.A. kicad 7.0.5-0		Id: 4/10



Under higher current (>2.5A) and room temperature (25°C), the typical current sense ratio is 9700.

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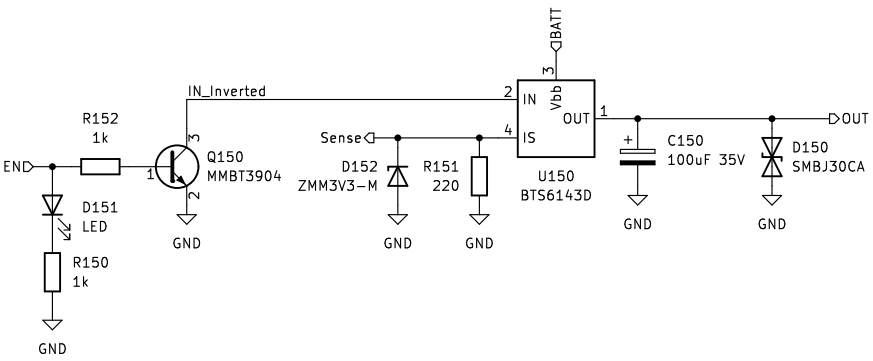
$U_{max} = 220\Omega * 7.5mA = 1.65V$

Raphael Peters		
Sheet: /Switch 4/ File: power.kicad_sch		
Title: Power distribution module		
Size: A5	Date: 2023-07-18	**Rev:**
KiCad E.D.A. kicad 7.0.5-0		Id: 5/10



Under higher current (>2.5A) and room temperature (25°C), the typical current sense ratio is 9700.

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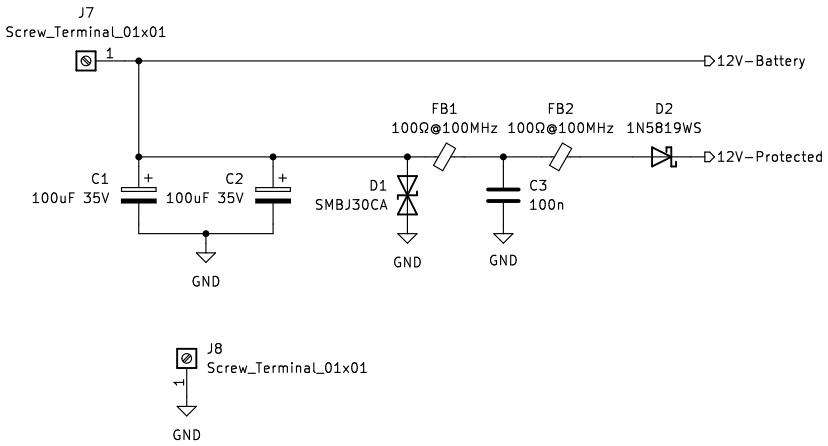
Raphael Peters

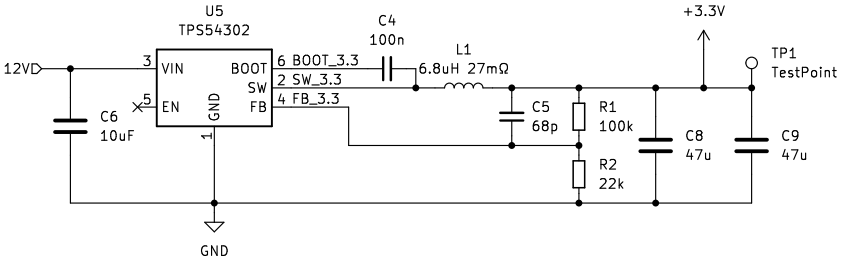
Sheet: /Switch 5/
File: power.kicad_sch

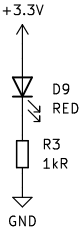
Title: Power distribution module

Size: A5	Date: 2023-07-18	**Rev:**
KiCad E.D.A. kicad 7.0.5-0		Id: 6/10

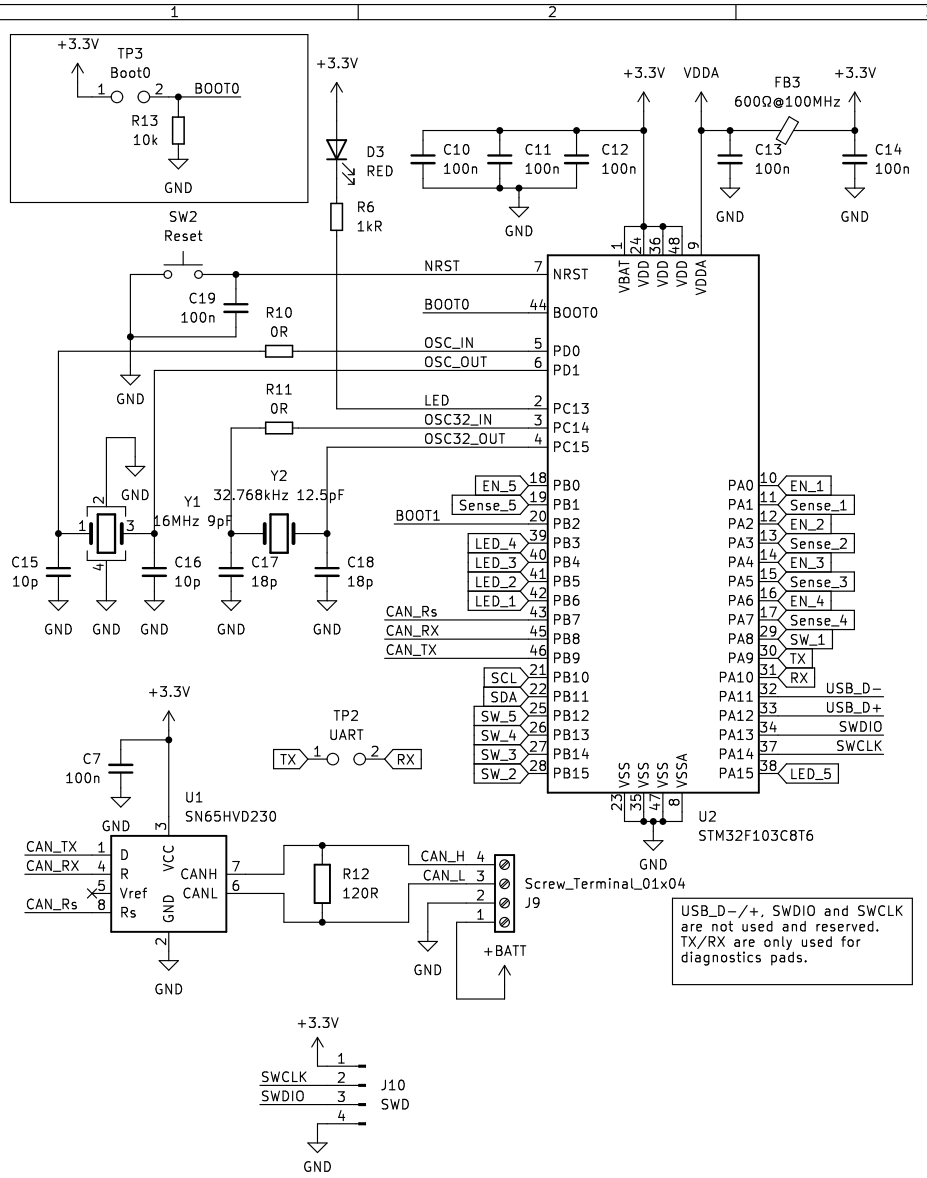


Raphael Peters		
Sheet: /Power input/ File: power_input.kicad_sch		
Title: Power distribution module		
Size: A5	Date: 2023-07-18	**Rev:**
KiCad E.D.A. kicad 7.0.5-0		Id: 7/10

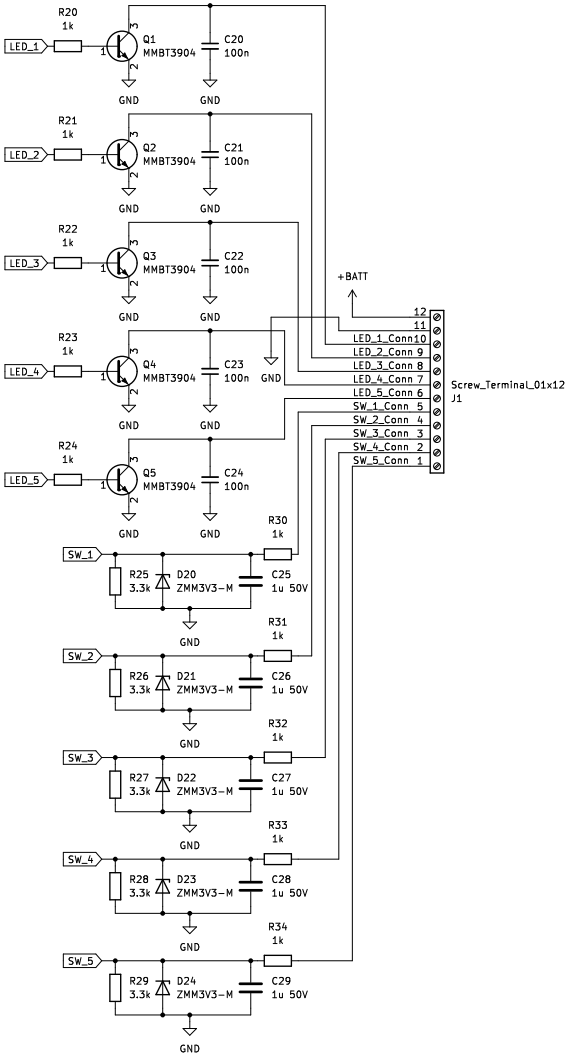




Raphael Peters		
Sheet: /Power supply/ File: power_supply.kicad_sch		
Title: Power distribution module		
Size: A5	Date: 2023-07-18	**Rev:**
KiCad E.D.A. kicad 7.0.5-0		Id: 8/10



Raphael Peters		
Sheet: /Control/		
File: control.kicad_sch		
Title: Power distribution module		
Size: A5	Date: 2023-07-18	**Rev:**
KiCad E.D.A. kicad 7.0.5-0		Id: 9/10



Raphael Peters		
Sheet: /IO Ports/ File: io.kicad_sch		
Title: Power distribution module		
Size: A4	Date: 2023-07-18	**Rev:**
KiCad E.D.A. kicad 7.0.5-0		Id: 10/10