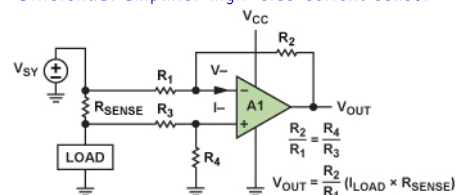


Currents up to 320mA can be measured with high precision through the INA219. For higher currents the semi-precise differential amplifier can be used.

Differential amplifier high-side current sensor



- 2 pcb concept. To be used together with frontpanel pcb
- Powered from standard pc psu (12V)
- Preregulation with SEPIC converter
- based on David Jones' uSupply project

Sheet: /CurrentSense/

File: CurrentSense.sch

Title: Lab Psu (0-20V 0-2A)

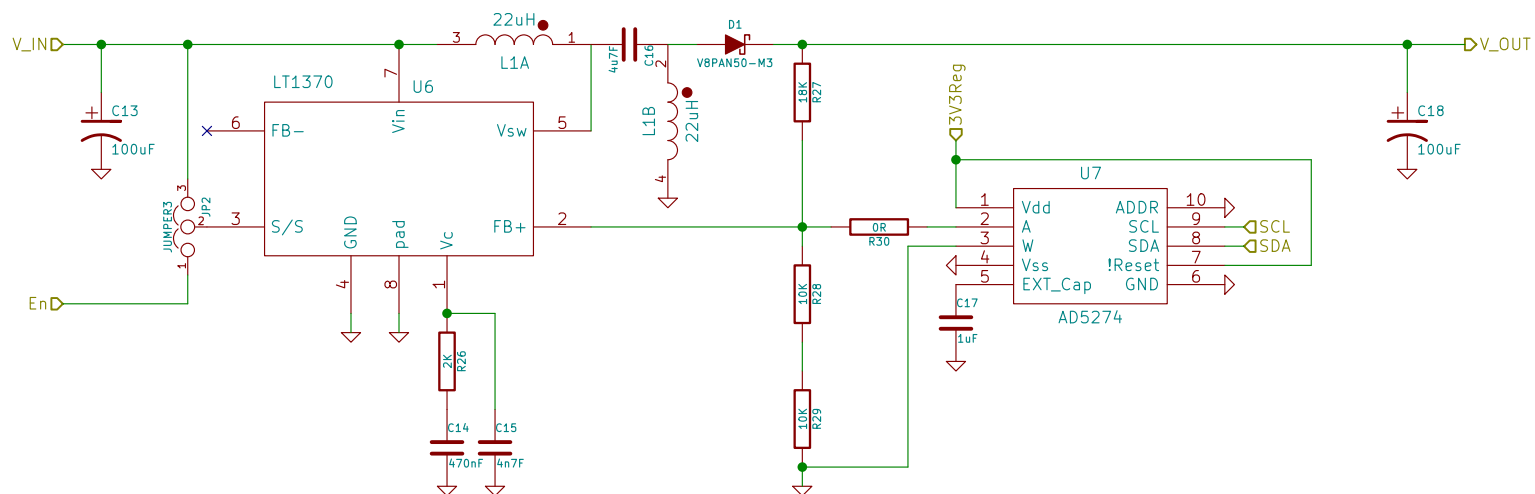
Size: A4

Date:

KiCad E.D.A. kicad (2015-06-26 BZR 5832)-product

Rev: B

Id: 2/5



- Switching pre regulator
- SEPIC converter
- Powered from standard pc psu (12V)

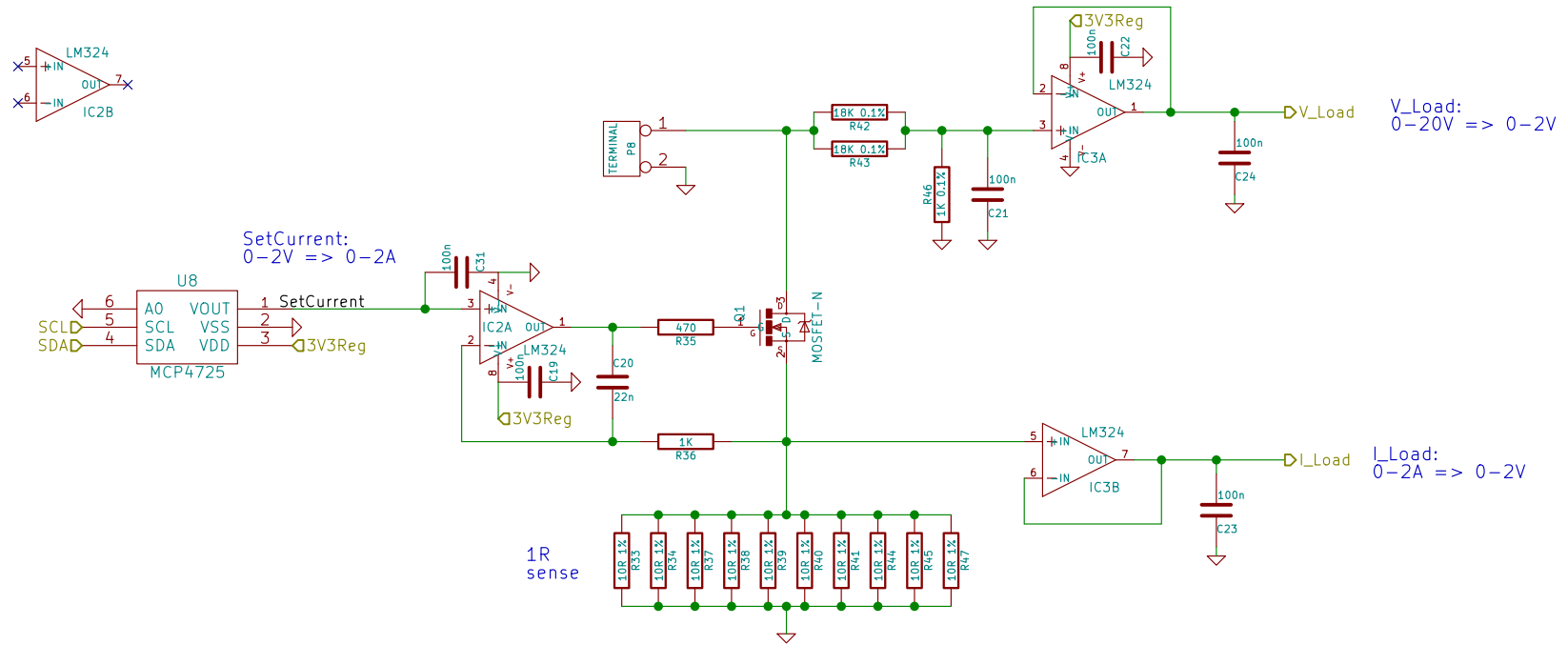
Sheet: /Preregulation/
File: Preregulation.sch

Title: Lab Psu (0-20V 0-2A)

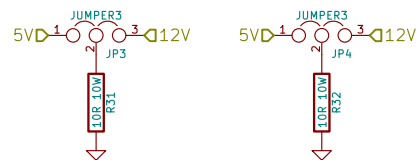
Size: A4 Date: KiCad E.D.A. kicad (2015-06-26 BZR 5832)-product

Rev: B Id: 3/5

constant current load



load resistors

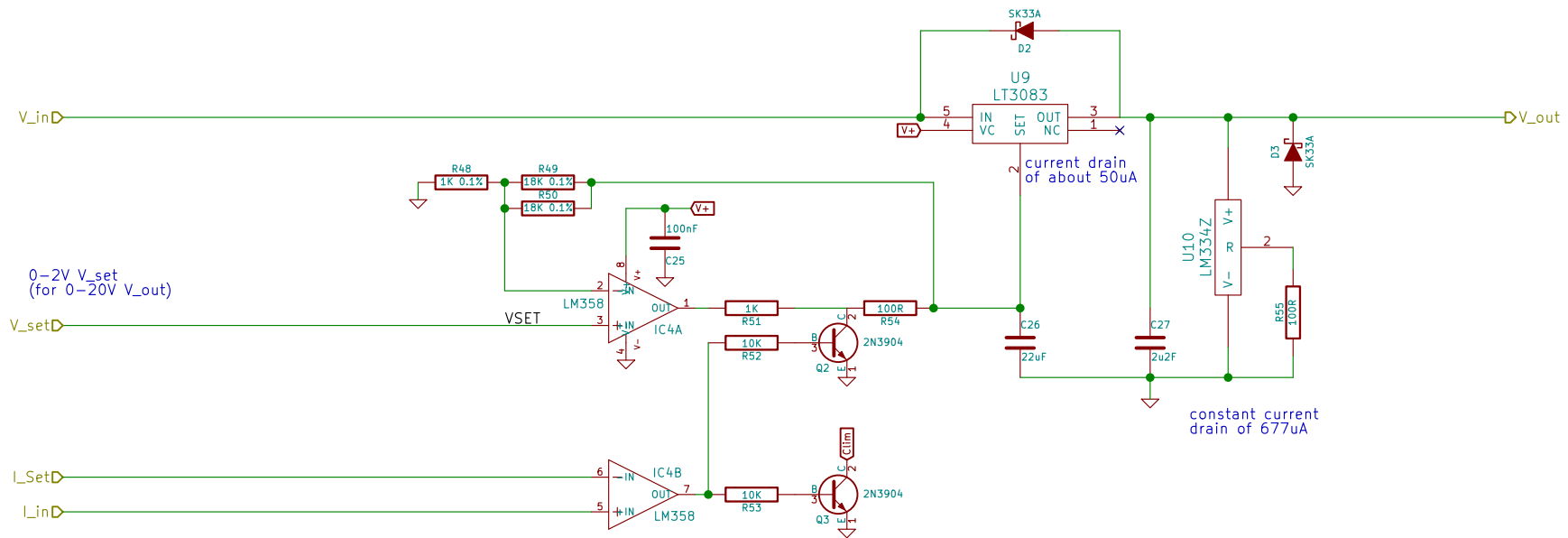


Sheet: /loads/
File: loads.sch

Title: Lab Psu (0-20V 0-2A)

Size: A4 Date:
KiCad E.D.A. kicad (2015-06-26 BZR 5832)-product

Rev:
Id: 4/5



Sheet: /Regulation/
File: Regulation.sch

Title:

Size: A4 Date:
KiCad E.D.A. kicad (2015-06-26 BZR 5832)-product

Rev:
Id: 5/5