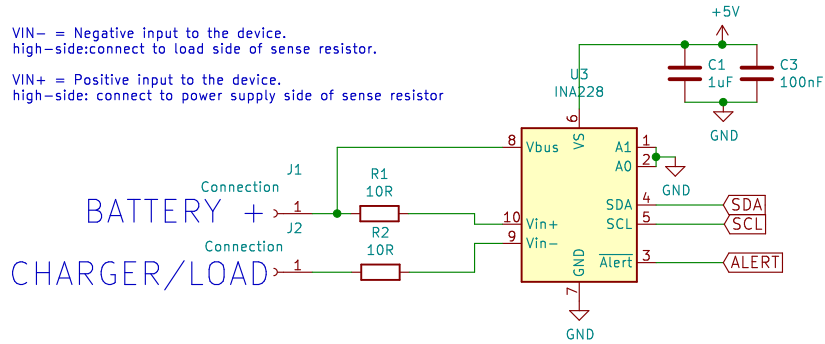


VIN- = Negative input to the device.  
high-side: connect to load side of sense resistor.

VIN+ = Positive input to the device.  
high-side: connect to power supply side of sense resistor



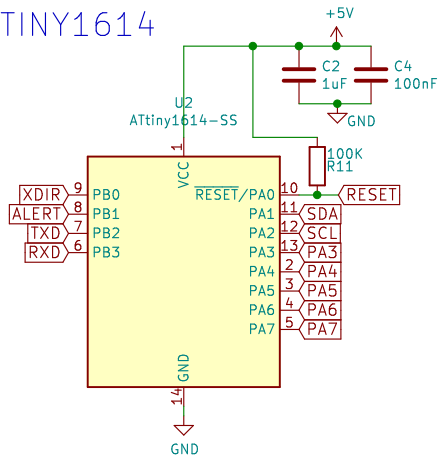
#### SHUNTS

<https://shunts.com/>  
RIEDON SHUNTS, 50mV and 100mV output  
<https://shunts.com/collections/shunts/products/mka?variant=35787073126552>

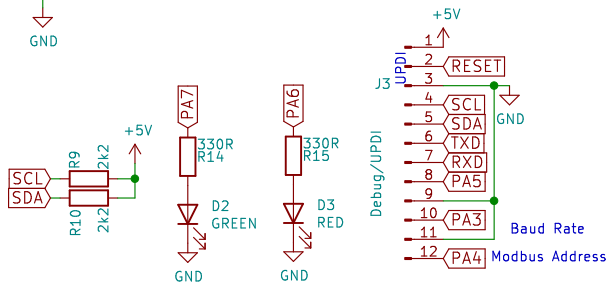
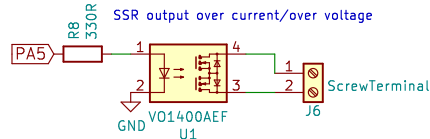
MKA-75, Operating current 50A  
MKB-200, operating current 133A  
MKB-300, operating current 200A  
MKB-500, operating current 333A

Shunts should be placed on side, longest side horizontal  
MKA, 50.8mm wide, 31.8mm high  
MKB, 82.6mm wide, 44.5mm high

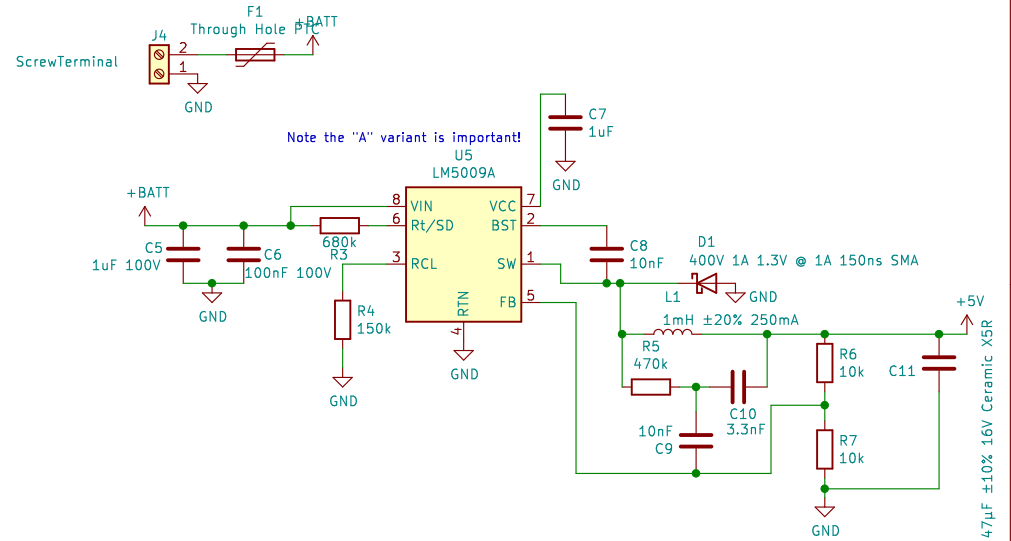
#### ATTINY1614



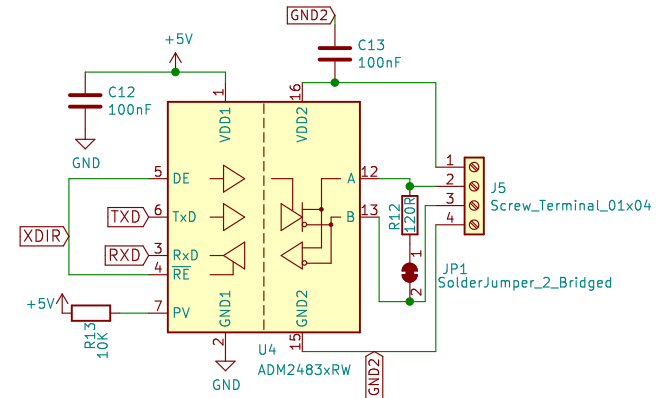
#### RELAY OUTPUT



#### Step Down Regulator (9 to 85V down to 5V)



#### RS485 Isolation



Stuart Pittaway

Sheet: /  
File: CurrentShuntCircuit.sch

**Title: DIYBMS Isolated Current Shunt**

Size: A4 Date: 2021-02-22

KiCad E.D.A. kicad (5.1.5)-3

Rev: 1

Id: 1/1