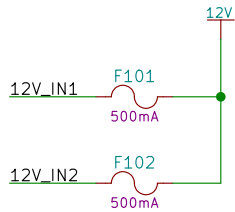
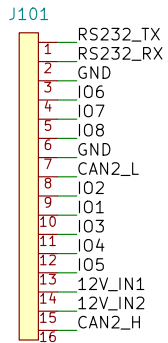


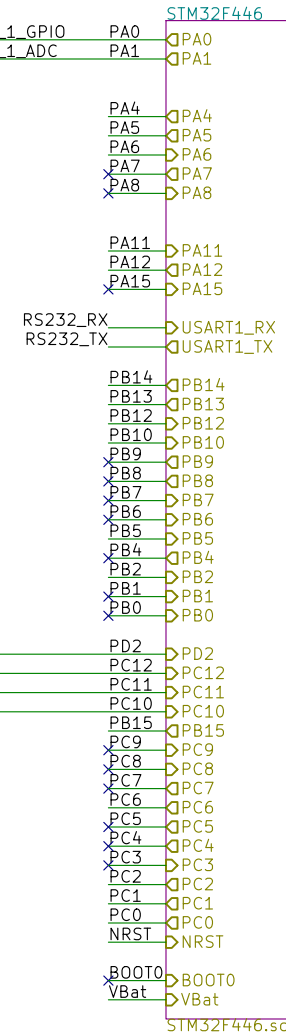
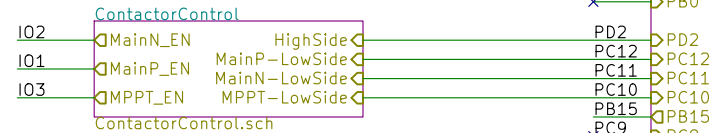
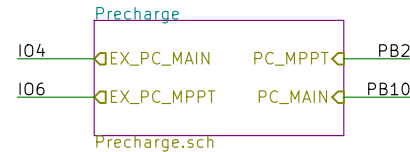
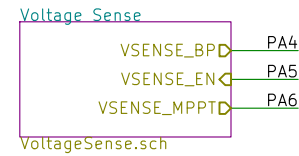
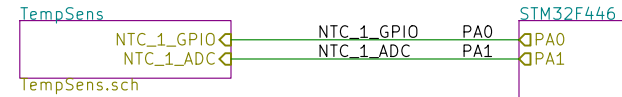
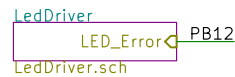
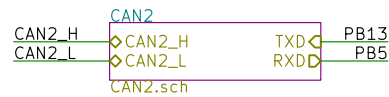
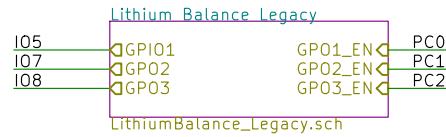
Alim Protection



Connecteur 16p



649016227222



Eclipse Solar Car
Designed by : Julien G. Bourassa

Verified by :
Sheet: /
File: Master_Board.sch

Title: BMS_MasterBoard-Root

Size: USLetter Date: 2017-06-25
KiCad E.D.A. kicad 4.0.6



Rev: V2
Id: 1/11

HSE AND LSE need to be routed as close as possible to the mcu.
See : AN2867

LSE

HSE

RESET

USART2

USART1

SWD Connector

LED :: BLINK :: DEBUG :: ASSERT

USER BUTTON

STM32F446RE

Eclipse Solar Car

Designed by : Christian Daigneault-St-Arnaud
Modif: Julien G. Bourassa

Verified by :

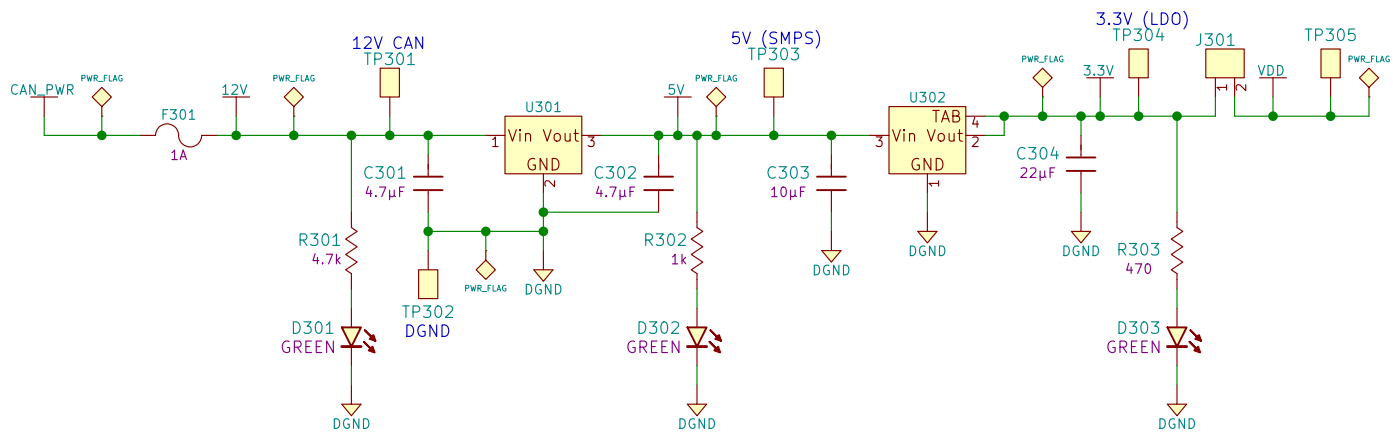
Sheet: /STM32F446/
File: STM32F446.sch

Title: STM32F446RE

Size: USLetter Date:
KiCad E.D.A. kicad 4.0.6

Rev: V2
Id: 2/11





Eclipse Solar Car

Designed by : Christian Daigneault-St-Arnaud

Verified by :

Sheet: /Power Supply/

File: Power Supply.sch

Title: Power Supply

Size: USLetter

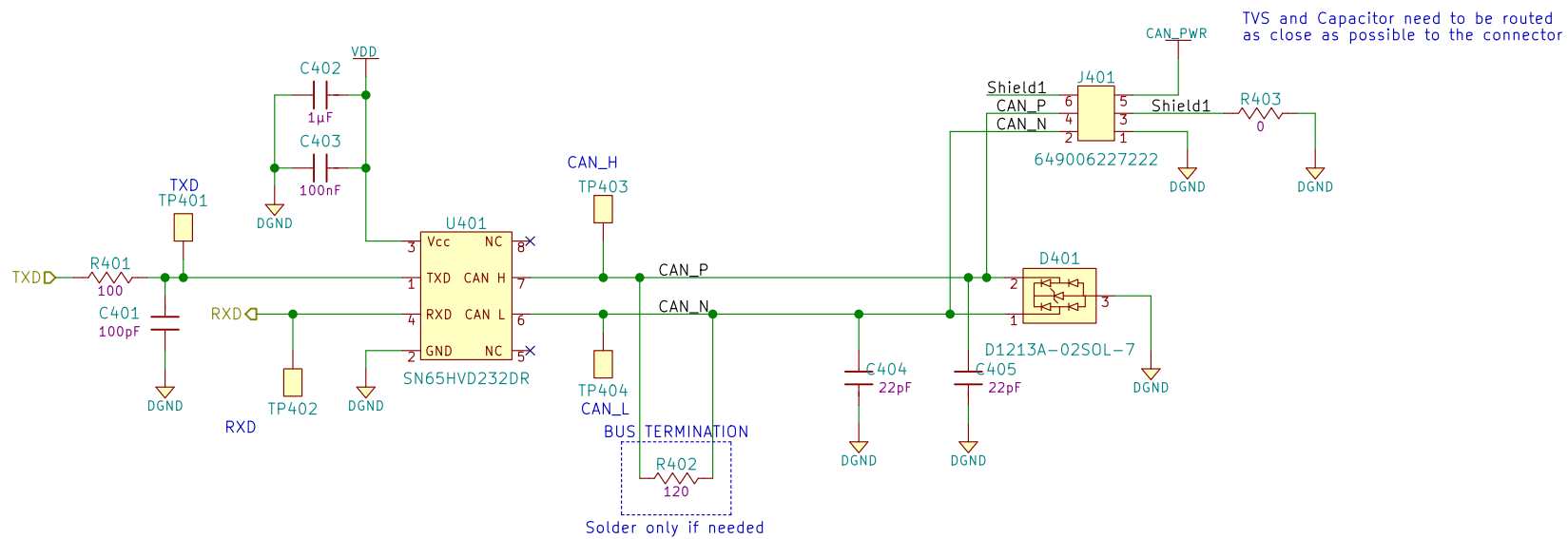
Date:

KiCad E.D.A. kicad 4.0.6

Rev: V2

Id: 3/11





Eclipse Solar Car

Designed by : Christian Daigneault-St-Arnaud
Modif: Julien G. Bourassa

Verified by :

Sheet: /CAN1/
File: CAN1.sch

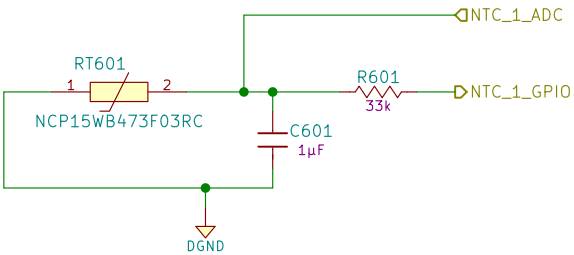
Title: CAN1

Size: USLetter Date: 2017-06-25
KiCad E.D.A. kicad 4.0.6

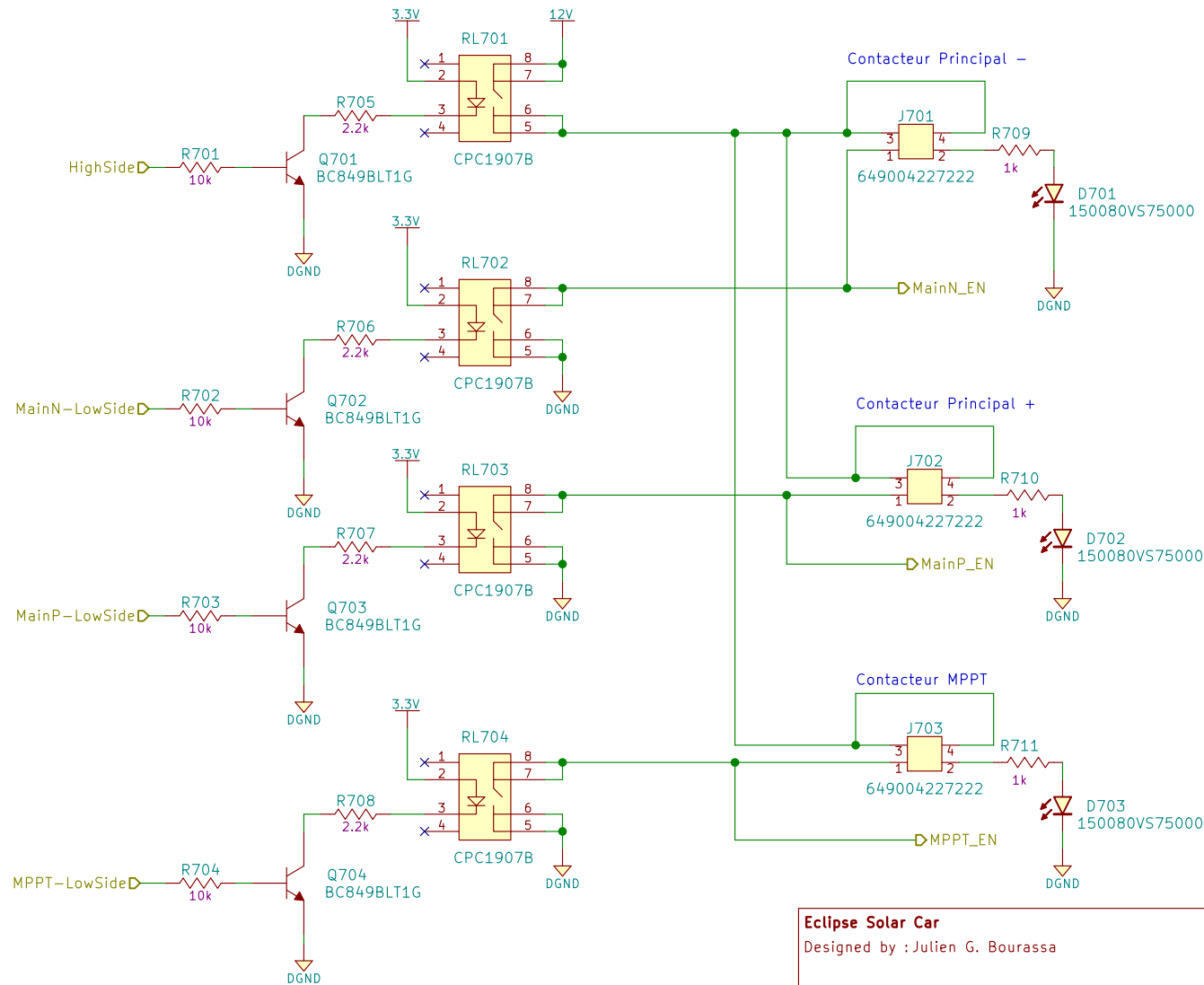


Rev: V2
Id: 4/11

Temperature Sensor



Note: Short female connector's pin 2 & 4 for interlock status.



Eclipse Solar Car

Designed by : Julien G. Bourassa

Verified by :

Sheet: /ContactorControl/

File: ContactorControl.sch

Title: Contactor Control

Size: A4

Date: 2017-06-25

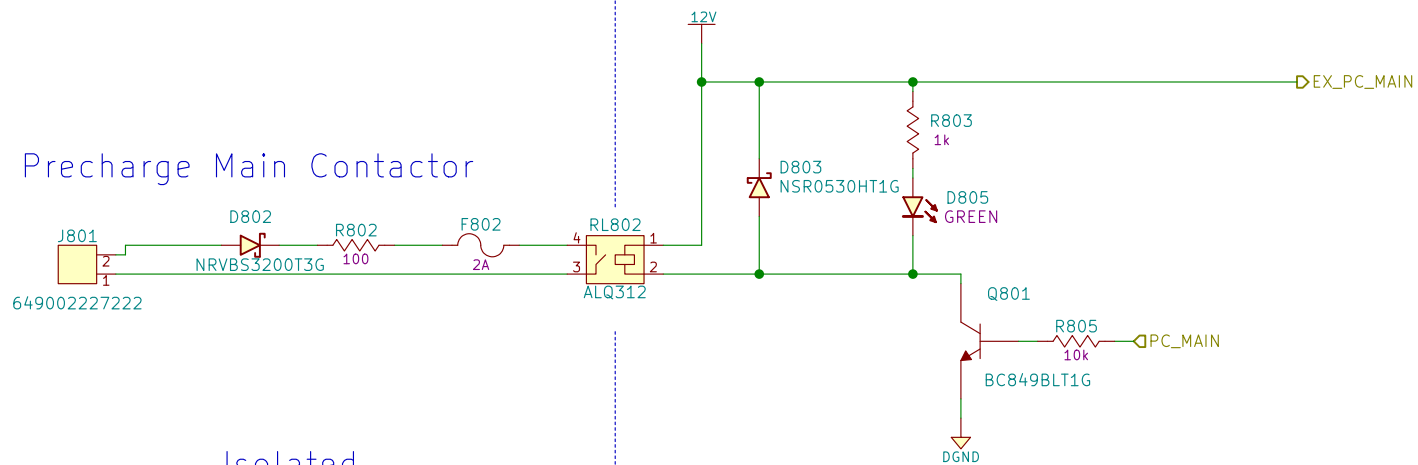
KiCad E.D.A. kicad 4.0.6

Rev: V2

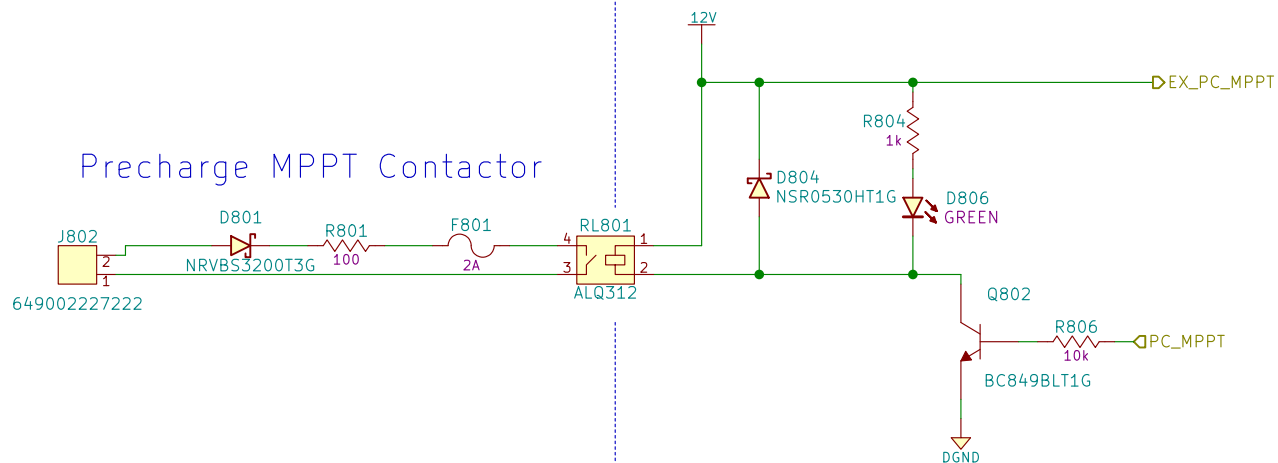
Id: 7/11



Precharge Main Contactor



Precharge MPPT Contactor



*Note: Precharge resistor can be used with heatsink ATS-PCB1064 for 50W.

Eclipse Solar Car

Designed by : Julien G. Bourassa

Verified by :

Sheet: /Precharge/

File: Precharge.sch

Title: Precharge

Size: A4

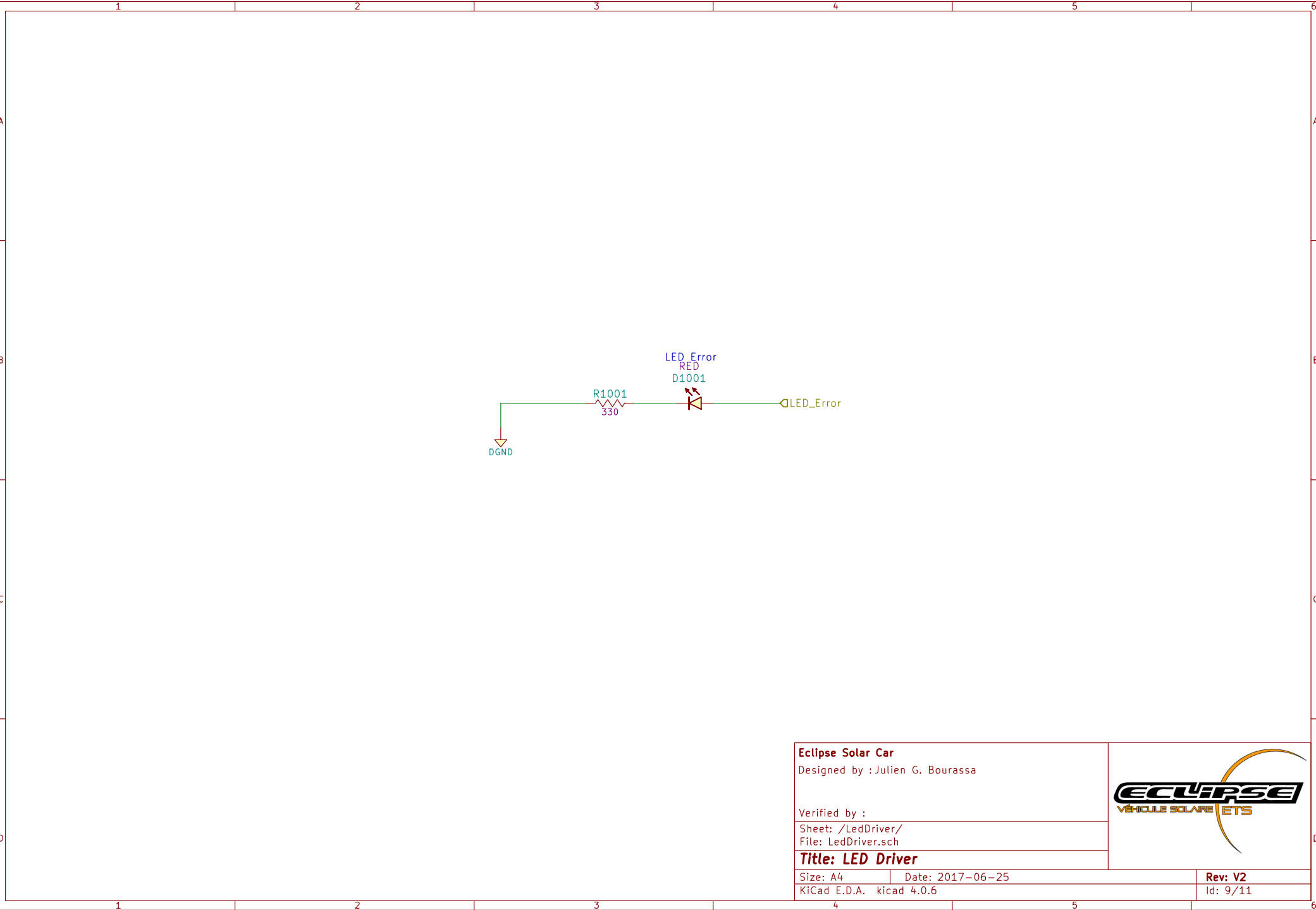
Date: 2017-06-25

KiCad E.D.A. kicad 4.0.6

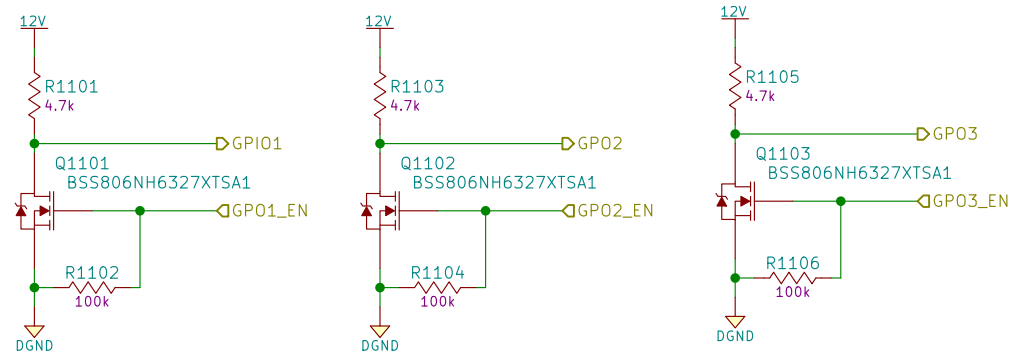
Rev: V2

Id: 8/11





Genral Purpose Output



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Verified by :

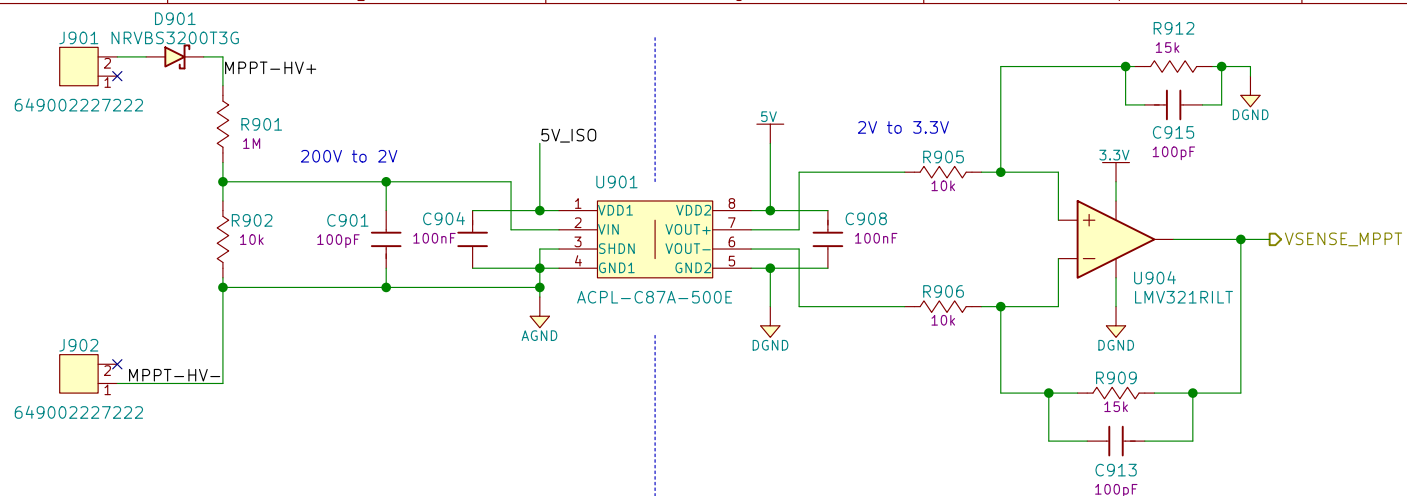
Sheet: /Lithium Balance Legacy/
File: LithiumBalance_Legacy.sch

Title: BMS_MasterBoard-Root

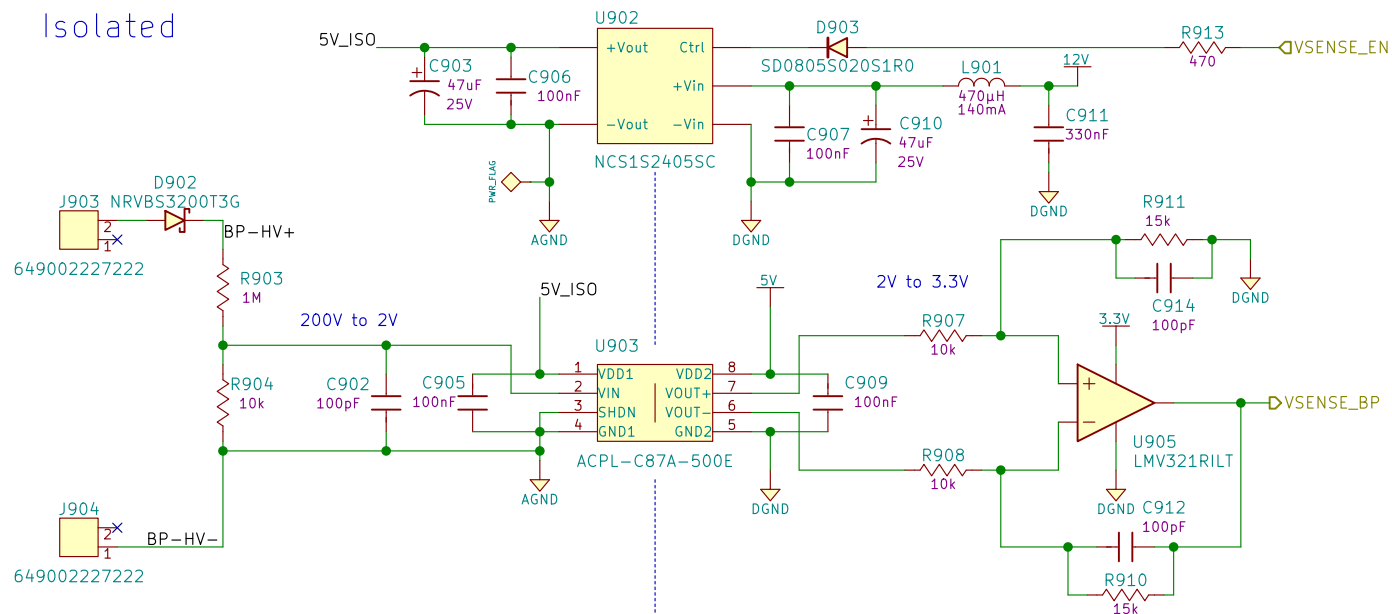
Size: USLetter Date: 2017-06-25
KiCad E.D.A. kicad 4.0.6



Rev: V2
Id: 10/11



Isolated



Eclipse Solar Car

Designed by : Julien G. Bourassa

Verified by :

Sheet: /Voltage Sense/

File: VoltageSense.sch

Title: Voltage Sense

Size: A4 Date: 2017-06-25

KiCad E.D.A. kicad 4.0.6



Rev: V2

Id: 11/11