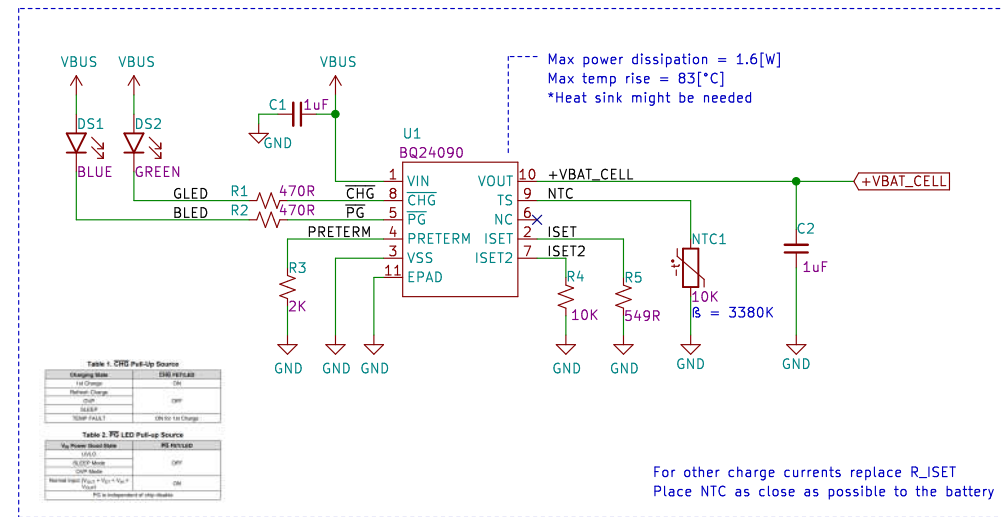


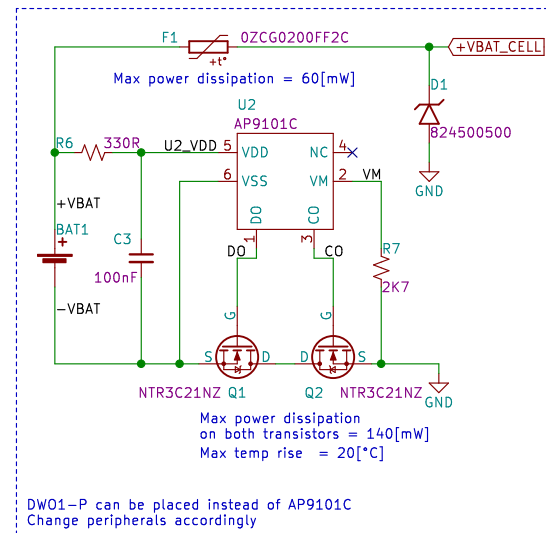
# Rechargeable 5V power bank

The design is intended for one 3.7[V] Li-Ion 18650 battery cell

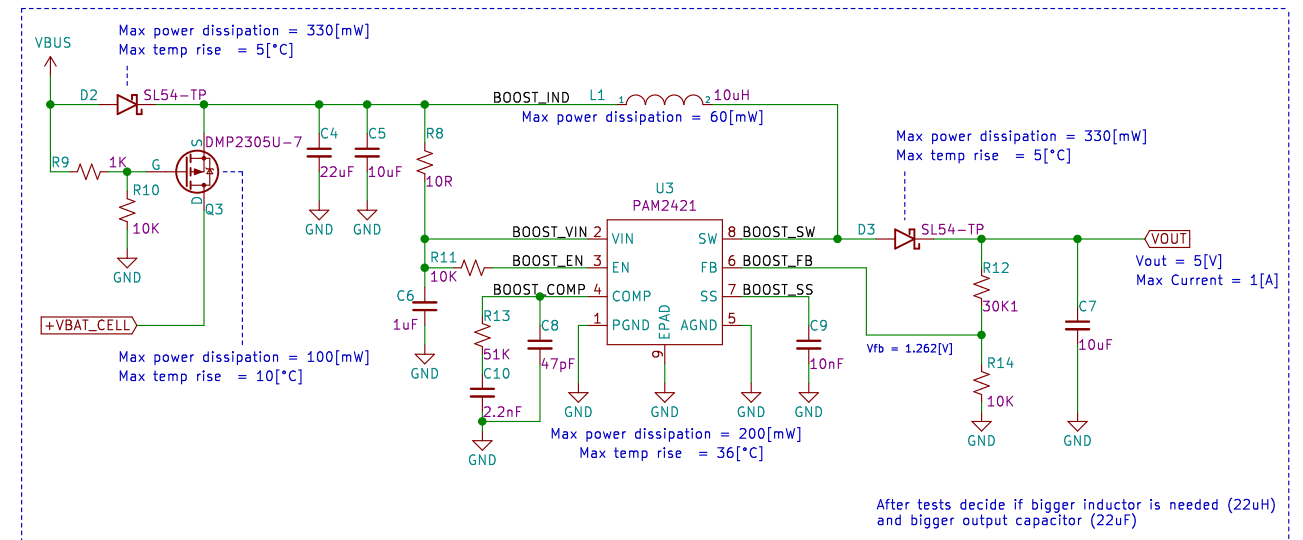
## Battery charger



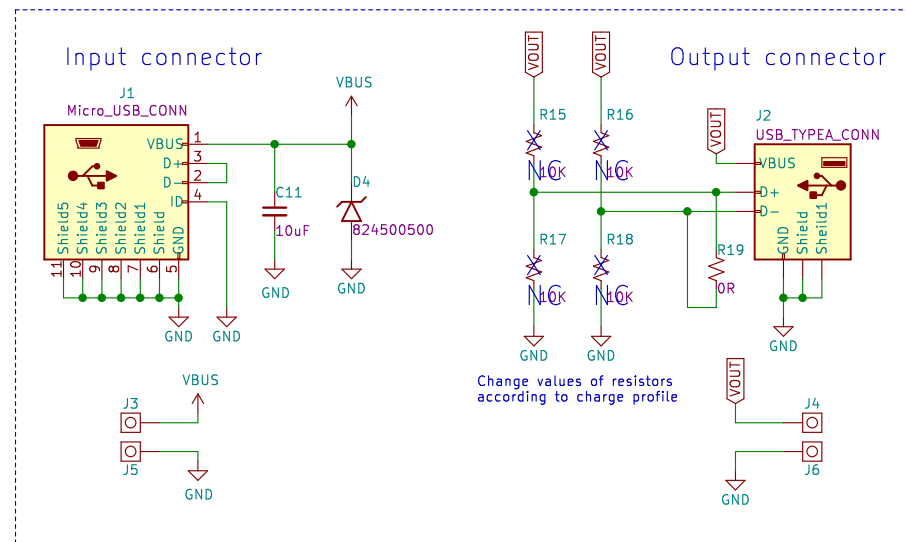
## Battery cell



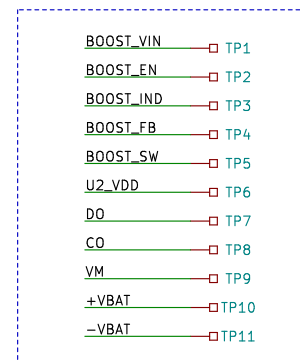
## Boost converter 3.7 [V] -> 5 [V]



## Connectors



## Test points



## Specifications:

Vin = 5[V]  
Vout = 5[V]  
Max output current = 1[A]  
Battery charge current = 1[A]  
\*For other charge currents change R\_ISET  
\*\* The max output current and power are determined by the battery cell  
MAKE SURE YOUR BATTERY CAN WITHSTAND THE MAX RATINGS

X - Marks 'not connected' components  
NC

Rechargeable 5[V] power bank

Designed by Shahar S.



Sheet: /		
File: Rechargeable 5V power bank REV 0.5.sch		
Title: Main		
Size: A3	Date: 7-Aug-2020	Rev: 0.5
KiCad E.D.A. eeschema (5.1.6)-1		Id: 1/1