

**Title:** LION2CELL01D

## 2-cell Li-ion Battery Managment System

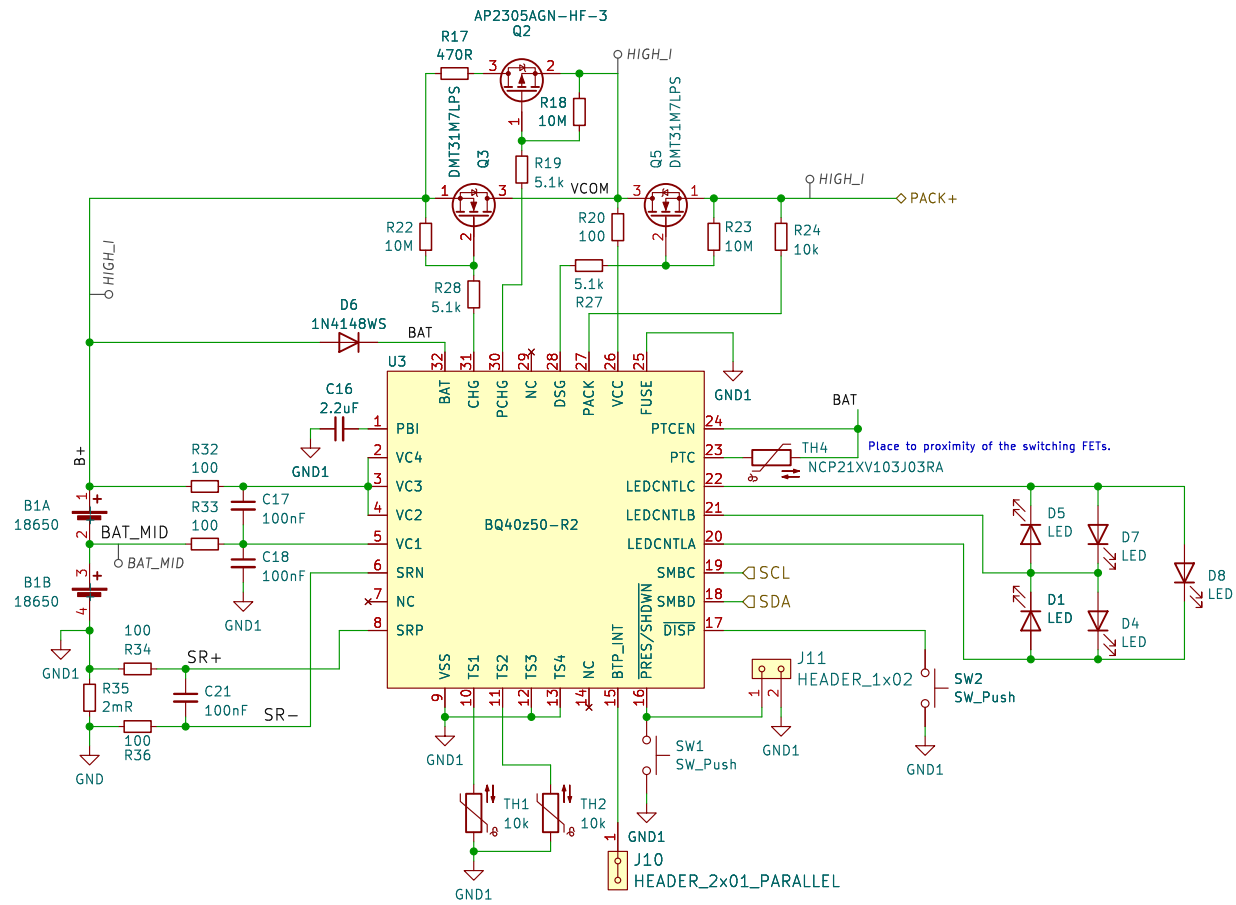
Author: jacho <jacho@mlab.cz>

Size: A4

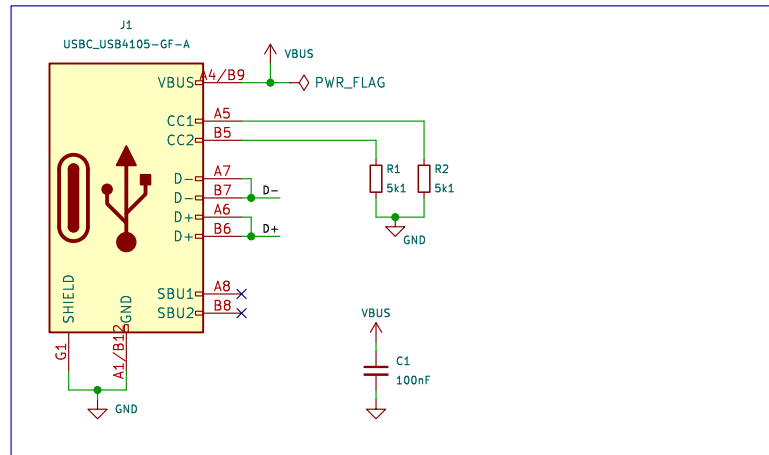
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Date: 2021-06-02

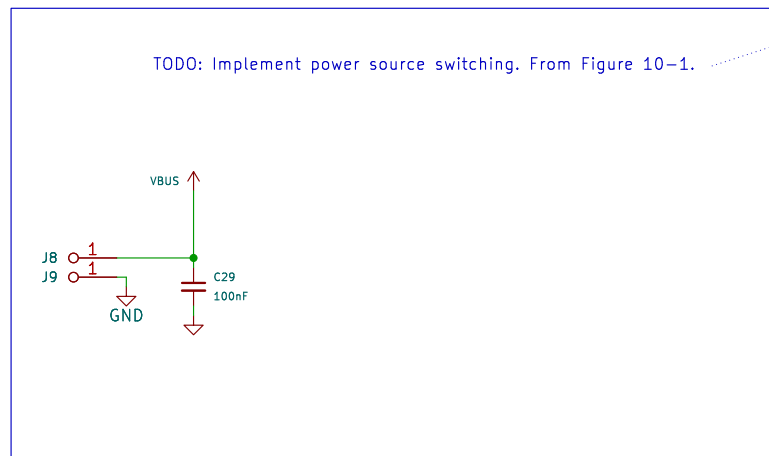




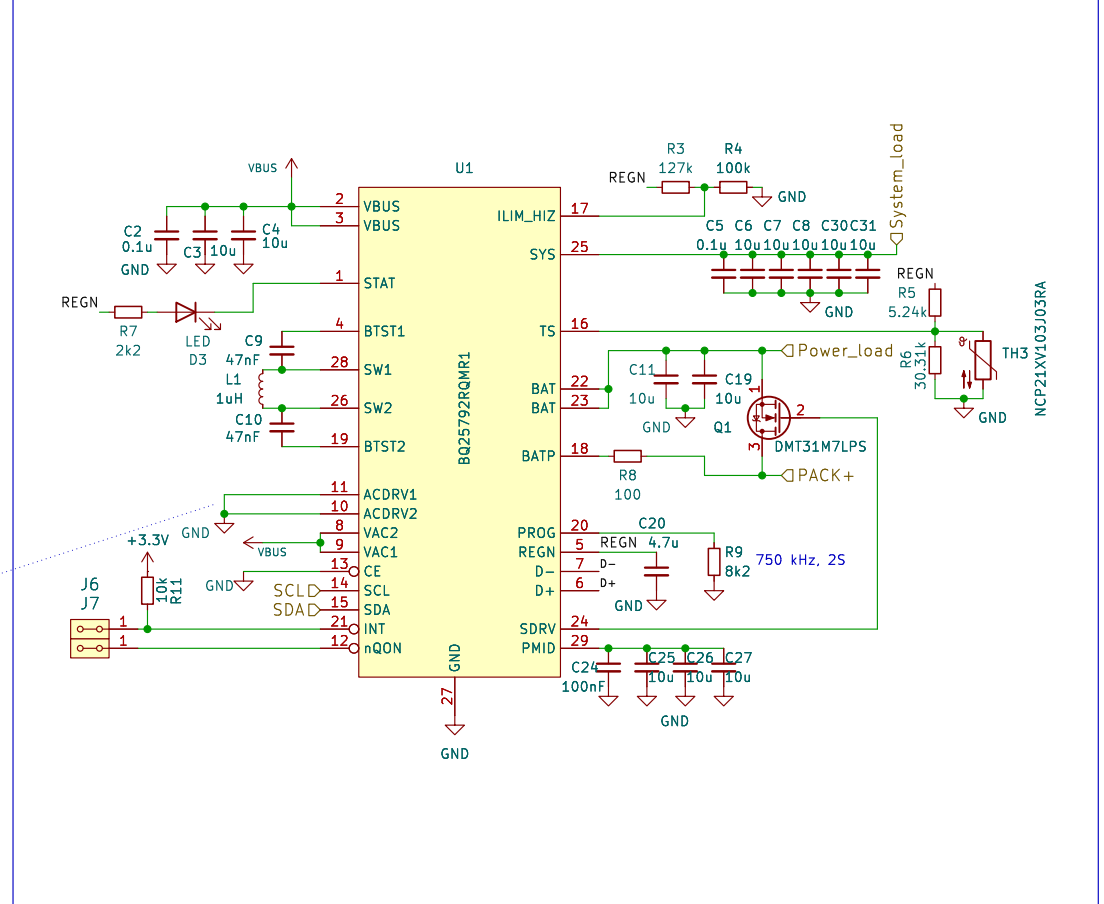
### USB-C interface



### High-power DC input



### Battery Charger



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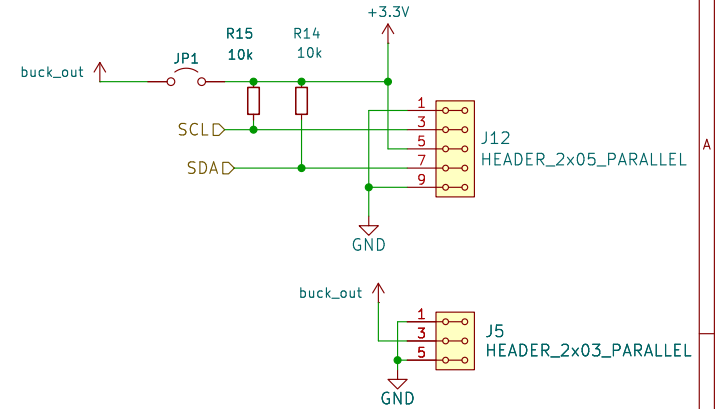
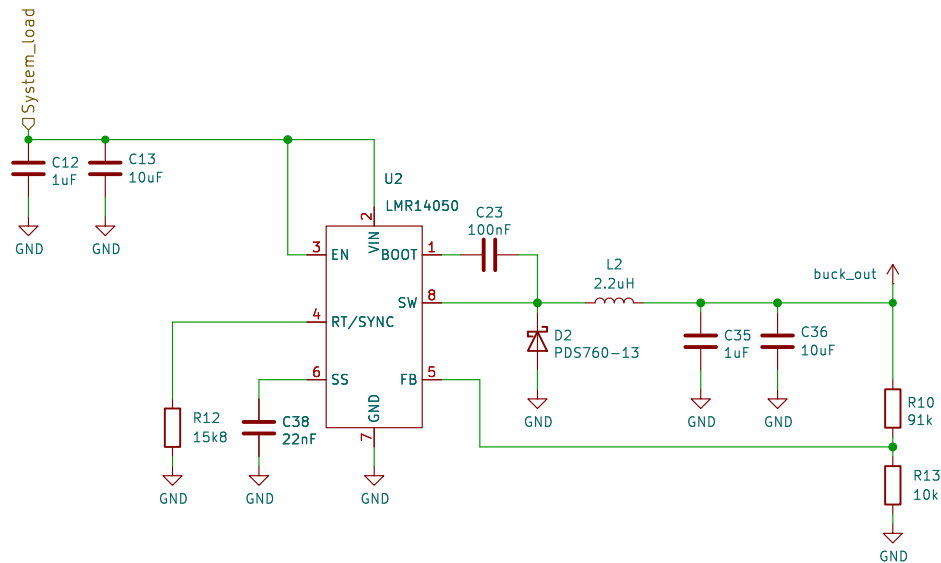
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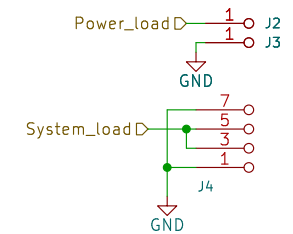


Buck convertor power source (LMR14050):  
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Designed parameters:  
- Source voltage: 4 – 8.4V (Two liion cells)  
- Output voltage: 5V  
- Output current: 2A (IC maximal continuous current is 5A)  
- Output inductance: 2.2 uH, Kind: 33%,  
- Switching frequenci: 1.5 Mhz (15k8)  
- OutC (Vripp: 50mV): 2uF



## POWER OUTPUT



RFBT (feedback top resistor values)  
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Bottom fixed for 10k Ohm

68 kOhm – 5.1V  
44 kOhm – 3.3V

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