

A

A

B

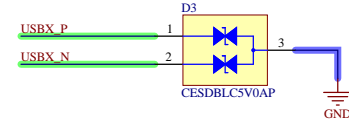
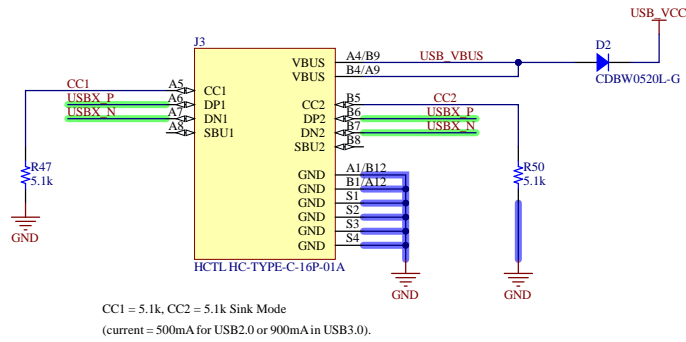
B

C

C

D

D

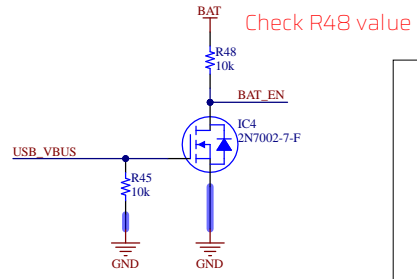
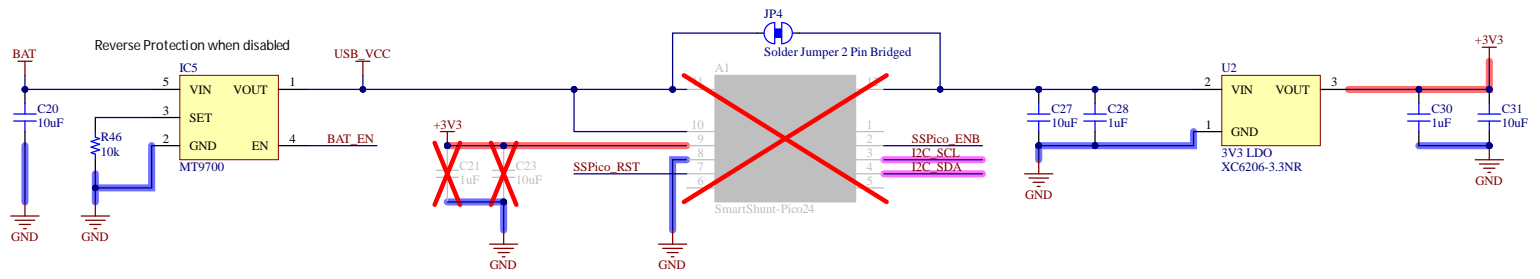


CC1 = 5.1k, CC2 = 5.1k Sink Mode
(current = 500mA for USB2.0 or 900mA in USB3.0).

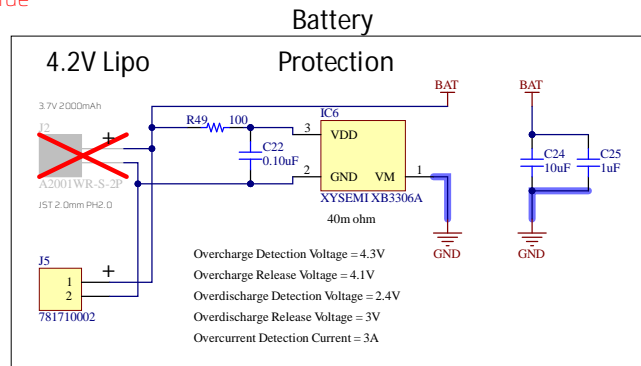
USB_VBUS	BAT_EN
0	1
1	0

$$I_{SET} (A) = \frac{6.8k\Omega}{R_{SET} (k\Omega)}$$

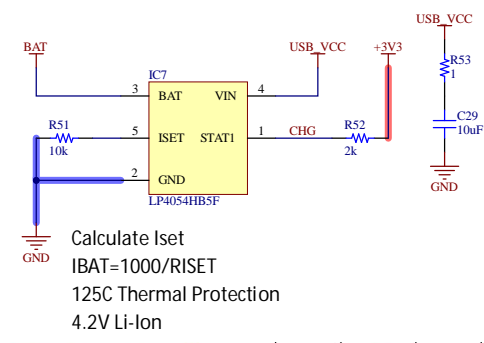
I _{SET} (mA)	R _{SET} (kΩ)
600	11.3
800	8.45
1000	6.8
1500	4.53
2000	3.4



Check R48 value



Overcharge Detection Voltage = 4.3V
Overcharge Release Voltage = 4.1V
Overdischarge Detection Voltage = 2.4V
Overdischarge Release Voltage = 3V
Overcurrent Detection Current = 3A



Calculate Iset
IBAT=1000/RISET
125C Thermal Protection
4.2V Li-Ion

RISET = 10K , Current Mode	100	mA
RISET = 2K , Current Mode	500	

A

B

C

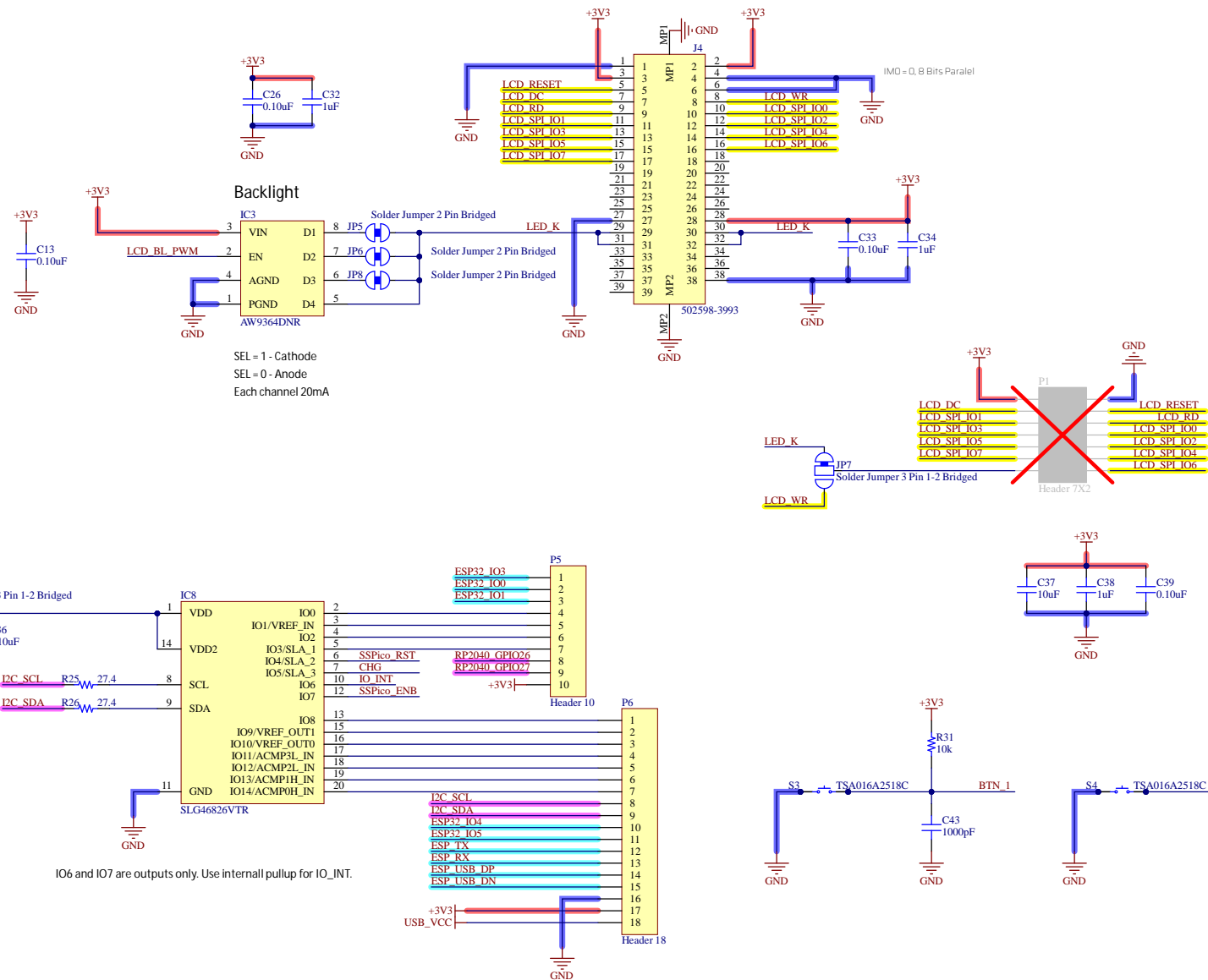
D

A

B

C

D



1	2	3	4	5	6	7	8
A					<h1>Release History</h1> <div><div>- 4322r1a / First release</div><div>- Initial Release</div></div> <div><div>- 0623r2a / Second release</div><div><div>- Paste layer has been adjusted for components IC3, IC8, IC1 and IC2</div><div>- Paste layer has been adjusted for Test Points</div><div>- Paste layer has been adjusted for J4</div><div>- Reset button and Pull-up resistor and a capacitor are placed.</div><div>- Boot button and Pull-up resistor and a capacitor are placed.</div><div>- LDO (U2) Footprint Error corrected. (Wrong pinout)</div></div></div> <div><div>- 2323r3a / Third release</div><div><div>- USB-C connector pads have been adjusted for hand soldering.</div><div>- The layout has been redesigned with 6 layers.</div><div>- Some components have been put to bottom layer.</div></div></div>		
B							
C							
D							

