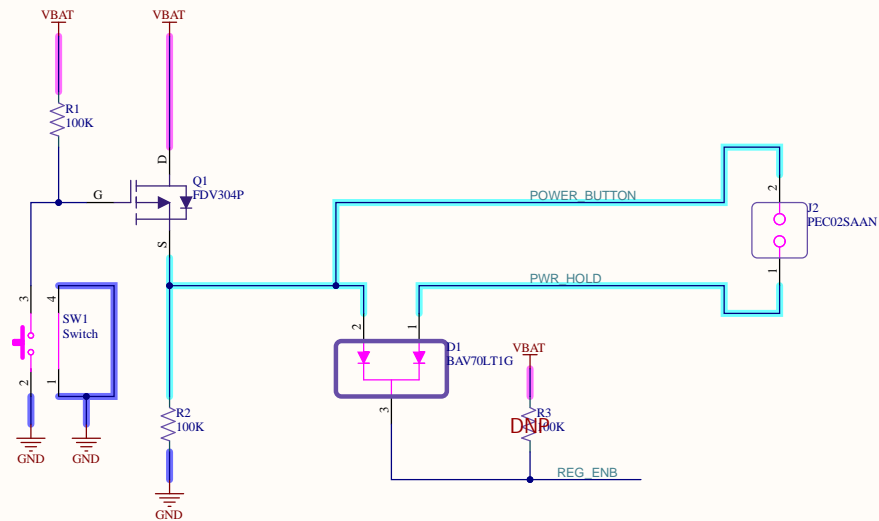
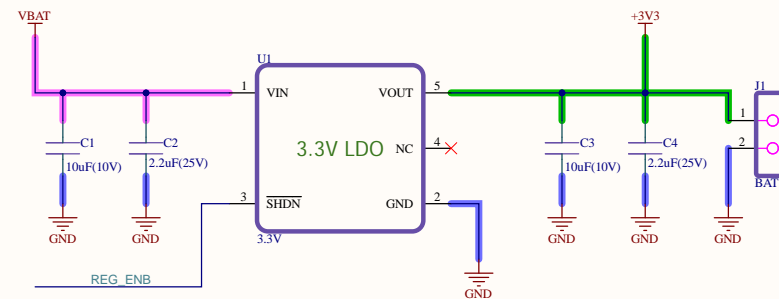


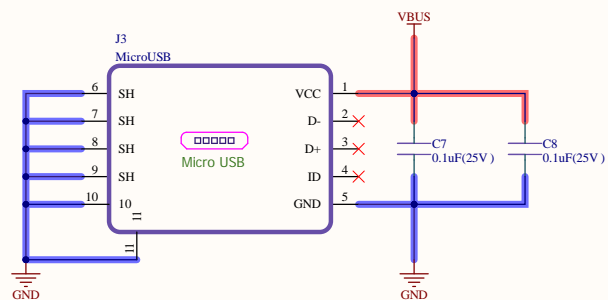
Push Button Control Circuit



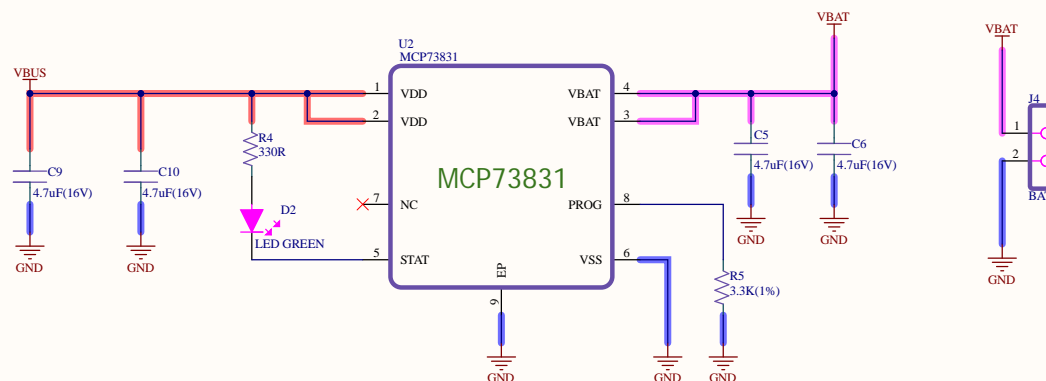
3.3v Linear Regulator



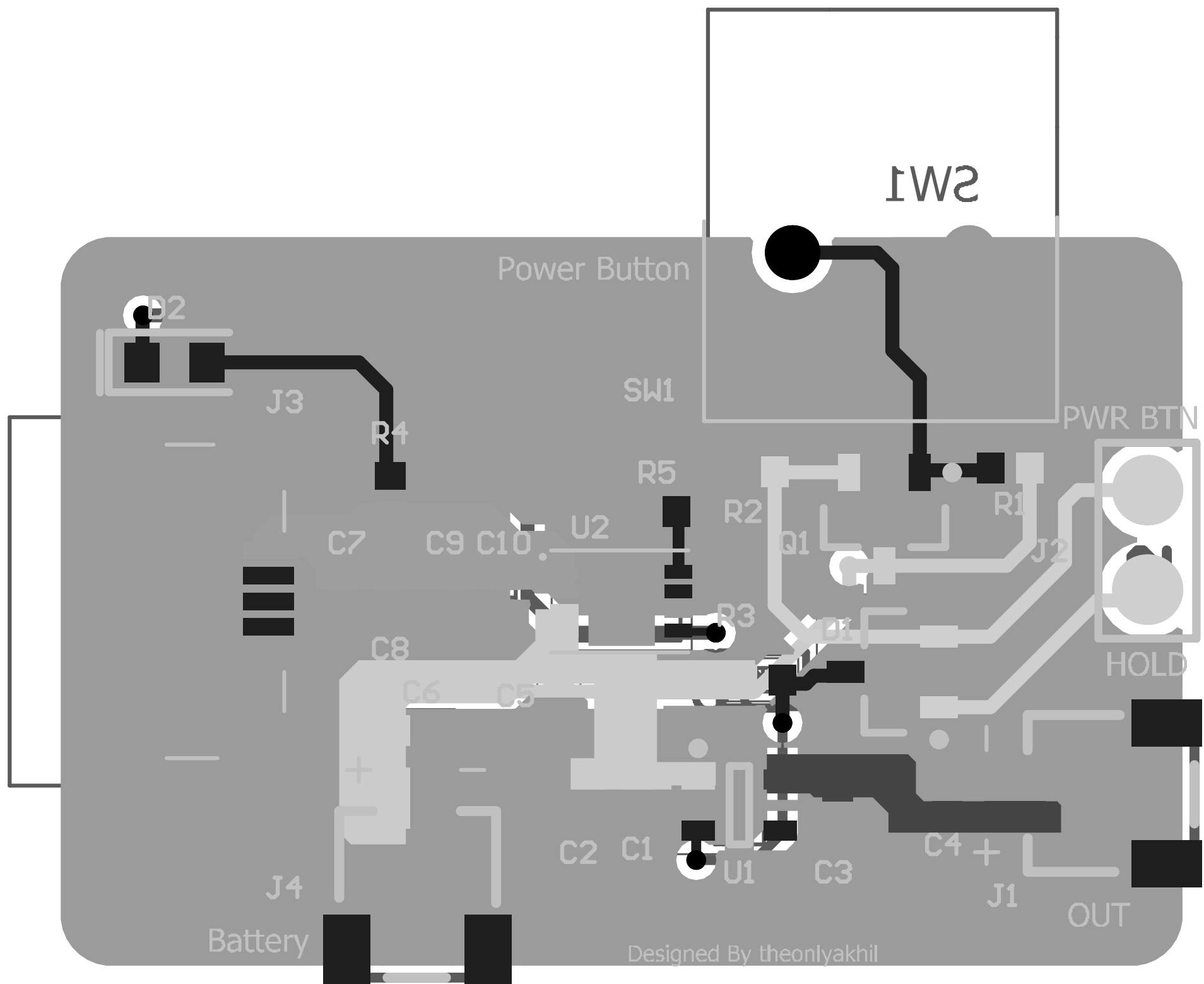
Micro USB Connector



MCP73831 BMS Unit



Title		
MCP73831 Battery Management Unit		
Size	Number	Revision
A3		
Date:	9-19-2021	Sheet of
File:	D:\Work_Files\1\MCP73831_BMS.SchDoc	Drawn By:



Comment	Description	Designator	Footprint	LibRef	Quantity
10uF(10V)	10µF ±20% 10V Ceramic Capacitor X5R 0402 (1005 Metric)	C1, C3	CAPACITOR_0402	CL05A106MP8NUB8	2
2.2uF(25V)	2.2 µF ±10% 25V Ceramic Capacitor X5R 0402 (1005 Metric)	C2, C4	CAPACITOR_0402	GRT155R61E225KE13D	2
4.7uF(16V)	4.7µF ±20% 16V Ceramic Capacitor X5R 0402 (1005 Metric)	C5, C6, C9, C10	CAPACITOR_0402	0402YD475MAT2A	4
0.1uF(25V)	0.1µF ±10% 25V Ceramic Capacitor X7R 0402 (1005 Metric)	C7, C8	CAPACITOR_0402	GRM155R71E104KE14 J	2
BAV70LT1G	Diode Array 1 Pair Common Cathode Standard 200mA (DC) Surface Mount TO- 236-3, SC-59, SOT-23- 3	D1	SOT-23_3LEAD - BAV70	BAV70LT1G	1
LED GREEN	Green 570nm LED Indication - Discrete 2.1V 0603 (1608 Metric)	D2	0603_LED	XZVG53W-8	1
BAT	Connector Header Surface Mount, Right Angle 2 position 0.039" (1.00mm)	J1, J4	SM02B-SRSS- TB(LF)(SN)	SM02B-SRSS- TB(LF)(SN)	2
PEC02SAAN	Connector Header Through Hole 2 position 0.100" (2.54mm)	J2	P2.541X2HDR	PEC02SAAN	1
MicroUSB	USB - micro B USB 2.0 Receptacle Connector 5 Position Surface Mount, Right Angle; Through Hole	J3	Micro USB	629105150521	1
FDV304P	P-Channel 460mA (Ta) 350mW (Ta) Surface Mount SOT- 23	Q1	SOT-23_3LEAD	FDV304P	1
100K	100 kOhms ±5% 0.1W, 1/10W Chip Resistor 0402 (1005 Metric) Automotive AEC- Q200 Thick Film	R1, R2, R3	RESISTOR_0402	ERJ-2GEJ104X	3
330R	±5% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Automotive AEC- Q200, Moisture Resistant Thick Film	R4	RESISTOR_0402	CRGCQ0603J330R	1
3.3K(1%)	3.3 ±1% 0.1W, 1/10W Chip Resistor 0402 (1005 Metric) Automotive AEC- Q200, Moisture Resistant Thick Film	R5	RESISTOR_0402	RK73H1ETTP3301F	1
Switch	Tactile Switch SPST- NO Side Actuated Through Hole, Right Angle	SW1	right angle through hole switch	1301.9502	1
3.3V	LDO Voltage Regulators Ultra Low Iq LDO	U1	SOT23-5LEAD	MCP1812BT-033/OT	1
MCP73831	Charger IC Lithium Ion/Polymer 8-DFN (2x3)	U2	8VDFDN	MCP73831T-2DCI/MC	1