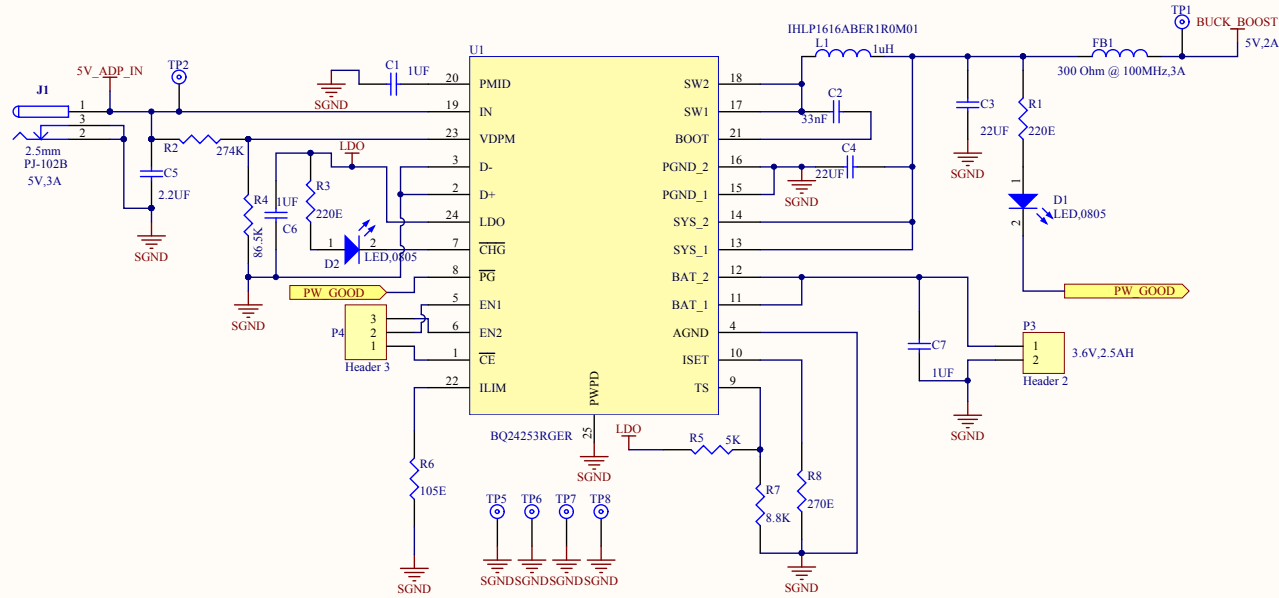


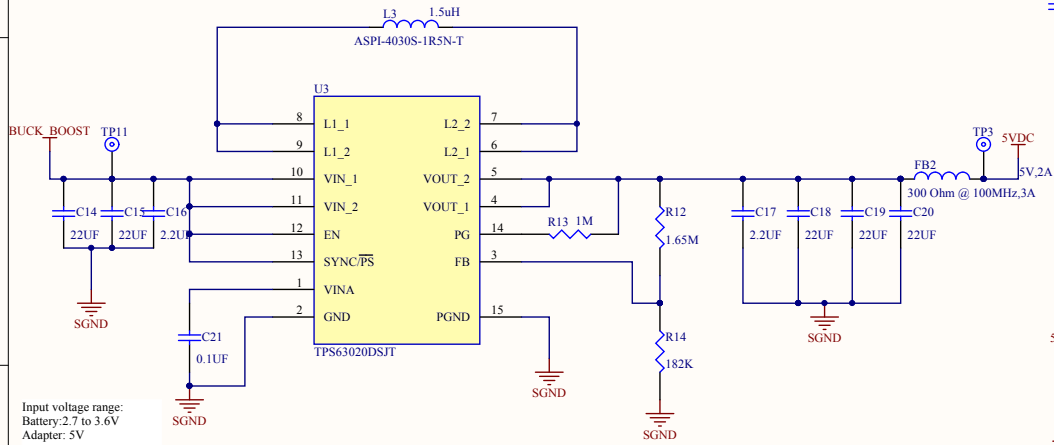
BATTERY CHARGER



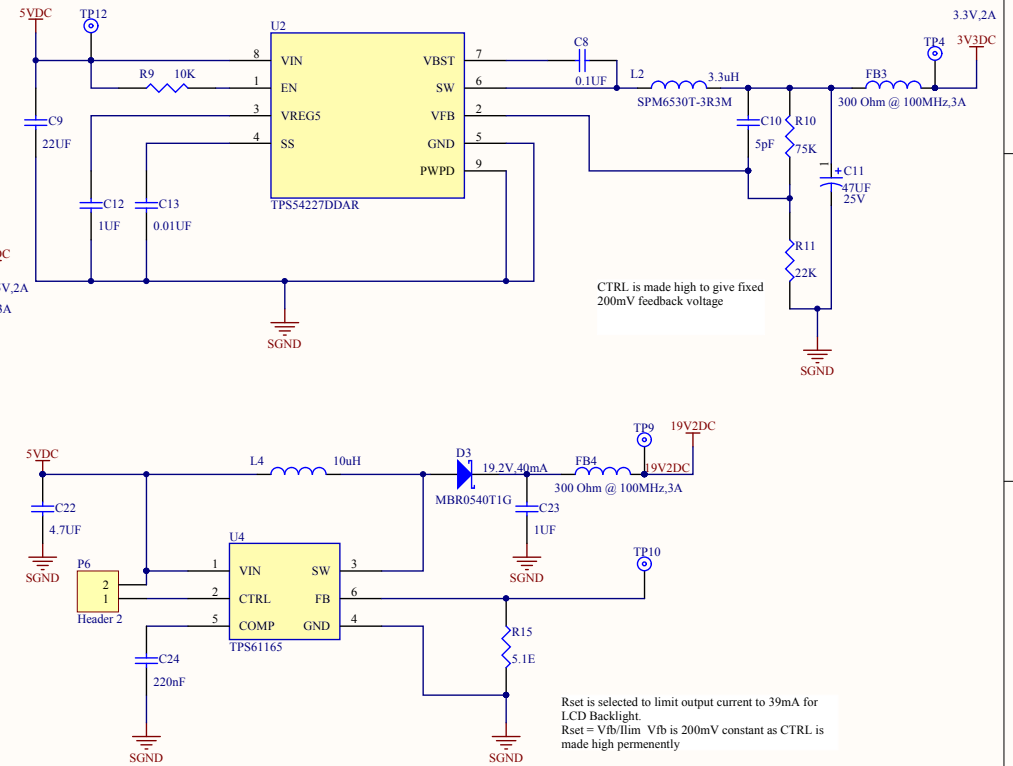
BATTERY CHARGER, BATTERY GAUGE CIRCUIT

Title Pulse Oximeter			
Size: B	Number:	Revision: 0.1	
Date: 6/2/2014		Sheet 2 of 2	
File: PO Power Sheet1.SchDoc		Drawn By:	

BUCK-BOOST CONVERTER



MULTIPLE OUTPUT VOLTAGES



BUCK-BOOST CONVERTER & MULTIPLE OUTPUT VOLTAGE

Title Pulse Oximeter			UST Global
Size: B	Number:	Revision: 0.1	
Date: 6/2/2014		Sheet 3 of 2	
File: PO Power Sheet2.SchDoc		Drawn By:	

Comment	Description	Designator	Footprint	MANUFACTURE1	MANUFACTURE1 PN	PACKAGE	PartType	Quantity	VALUE
CAP,CER,1UF,0805	CAP,CER,1UF,0805	C1, C6, C7, C12, C23	CC0805	SP Road	SP Road	0805	CAP,CER,1UF,0805	5	1UF
CAP,CER,33nF,0805	CAP,CER,33nF,0805	C2	CC0805	SP Road	SP Road	0805	CAP,CER,33nF,0805	1	33nF
CAP,CER,22UF,0805	CAP,CER,22UF,0805	C3, C4, C9, C14, C15, C18, C19, C20	CC0805	SP Road	SP Road	0805	CAP,CER,22UF,0805	8	22UF
CAP,CER,2.2UF,0805	CAP,CER,2.2UF,0805	C5, C16, C17	CC0805	SP Road	SP Road	0805	CAP,CER,2.2UF,0805	3	2.2UF
CAP,CER,0.1UF,0805	CAP,CER,0.1UF,0805	C8, C21	CC0805	SP ROAD	SP ROAD	0805	CAP,CER,0.1UF,0805	2	0.1UF
CAP,CER,5pF,0805	CAP,CER,5pF,0805	C10	CC0805	SP Road	SP Road	0805	CAP,CER,5pF,0805	1	5pF
47UF,T491D476M025AT	47UF,T491D476M025AT	C11	CAPMP7343X310	KEMET	T491D476M025AT	CAPMP7343X310	47UF,T491D476M025AT	1	47UF
CAP,CER,0.01UF,0805	CAP,CER,0.01UF,0805	C13	CC0805	SP Road	SP Road	0805	CAP,CER,0.01UF,0805	1	0.01UF
CAP,CER,4.7UF,0805	CAP,CER,4.7UF,0805	C22	CC0805	SP Road	SP Road	0805	CAP,CER,4.7UF,0805	1	4.7UF
CAP,CER,220nF,0805	CAP,CER,220nF,0805	C24	CC0805	SP Road	SP Road	0805	CAP,CER,220nF,0805	1	220nF
LED,0805	LED,0805	D1, D2	LEDC0805	SP Road	SP Road	0805	LED,0805	2	
Schottky Diode,MBR0540T1G	Schottky Diode,MBR0540T1G	D3	SOD123	OnSemi	MBR0540T1G	SOD123	Schottky Diode,MBR0540T1G	1	MBR0540T1G
WE-CBF SMD EMI SUPP FERRITE BEAD,300 Ohm @ 100MHz,3A	WE-CBF SMD EMI SUPP FERRITE BEAD,300 Ohm @ 100MHz,3A	FB1, FB2, FB3, FB4	INDC0805	Würth Electronics Inc	742792031	0805 (2012 Metric)	WE-CBF SMD EMI SUPP FERRITE BEAD,300 Ohm @ 100MHz,3A	4	300 Ohm @ 100MHz,3A
POWERJACK 3 HEADER	Connector, 3 Conductor Power Jack 2 break 2 aux contacts	J1	CUI_PJ-102B_JACK-3	CUI	PJ-102B	CUI_PJ-102B_JACK-3	POWERJACK 3 HEADER	1	
INDUCTOR POWER 1.0UH 4.0A SMD	INDUCTOR POWER 1.0UH 4.0A SMD	L1	IND_IHLP1616ABER1R0M01	Vishay	IHLP1616ABER1R0M01	1616AB	INDUCTOR POWER 1.0UH 4.0A SMD	1	1uH
Inductor: 3.3uH, DCR-29mO, Isat-7.4A, Irms-6.8A	Inductor: 3.3uH, DCR-29mO, Isat-7.4A, Irms-6.8A	L2	INDM7165	TDK	SPM6530T-3R3M	INDM7165	Inductor: 3.3uH, DCR-29mO, Isat-7.4A, Irms-6.8A	1	3.3uH
INDUCTOR CHIP 1.5UH 4030	INDUCTOR CHIP 1.5UH 4030	L3	INDM4040	ABRACON	ASPI-4030S-1R5N-T	INDM4040	INDUCTOR CHIP 1.5UH 4030	1	1.5uH
INDUCT PWR 10uH SMD	INDUCT PWR 10uH SMD	L4	IND_SDO1608	Coilmaster	SDO1608-100M-LF	IND_SDO1608	INDUCT PWR 10uH SMD	1	10uH
Header 2	Header, 2-Pin	P3, P6	BERG1x2			BERG1x2, [NoValue]	Header 2	2	
Header 3	Header, 3-Pin	P4	BERG1x3			BERG1x2	Header 3	1	
Resistor Axial, 220E	Resistor Axial, 220E	R1	RESAD1070_630X240	SP Road	SP Road	Resistor Axial, 220E	Resistor Axial, 220E	1	220E
Resistor Axial, 274K	Resistor Axial, 274K	R2	RESAD1070_630X240	SP Road	SP Road	Resistor Axial, 274K	Resistor Axial, 274K	1	274K
Resistor Axial, 200E	Resistor Axial, 200E	R3	RESAD1070_630X240	SP Road	SP Road	Resistor Axial, 200E	Resistor Axial, 200E	1	220E
Resistor Axial, 86.5K	Resistor Axial, 86.5K	R4	RESAD1070_630X240	SP Road	SP Road	Resistor Axial, 86.5K	Resistor Axial, 86.5K	1	86.5K
Resistor Axial, 5K	Resistor Axial, 5K	R5	RESAD1070_630X240	SP Road	SP Road	Resistor Axial, 5K	Resistor Axial, 5K	1	5K
Resistor Axial, 105E	Resistor Axial, 105E	R6	RESAD1070_630X240	SP Road	SP Road	Resistor Axial, 105E	Resistor Axial, 105E	1	105E
Resistor Axial, 8.8K	Resistor Axial, 8.8K	R7	RESAD1070_630X240	SP Road	SP Road	Resistor Axial, 8.8K	Resistor Axial, 8.8K	1	8.8K
Resistor Axial, 270E	Resistor Axial, 270E	R8	RESAD1070_630X240	SP Road	SP Road	Resistor Axial, 270E	Resistor Axial, 270E	1	270E
Resistor Axial, 10K	Resistor Axial, 10K	R9	RESAD1070_630X240	SP Road	SP Road	Resistor Axial, 10K	Resistor Axial, 10K	1	10K
Resistor Axial, 75K	Resistor Axial, 75K	R10	RESAD1070_630X240	SP Road	SP Road	Resistor Axial, 75K	Resistor Axial, 75K	1	75K
Resistor Axial, 22K	Resistor Axial, 22K	R11	RESAD1070_630X240	SP Road	SP Road	Resistor Axial, 22K	Resistor Axial, 22K	1	22K
Resistor Axial, 1.65M	Resistor Axial, 1.65M	R12	RESAD1070_630X240	SP Road	SP Road	Resistor Axial, 1.65M	Resistor Axial, 1.65M	1	1.65M
Resistor Axial, 1M	Resistor Axial, 1M	R13	RESAD1070_630X240	SP Road	SP Road	Resistor Axial, 1M	Resistor Axial, 1M	1	1M
Resistor Axial, 182K	Resistor Axial, 182K	R14	RESAD1070_630X240	SP Road	SP Road	Resistor Axial, 182K	Resistor Axial, 182K	1	182K
Resistor Axial, 5.1E	Resistor Axial, 5.1E	R15	RESAD1070_630X240	SP Road	SP Road	Resistor Axial, 5.1E	Resistor Axial, 5.1E	1	5.1E
BERG1X1	BERG1X1	TP1, TP2, TP3, TP4, TP5, TP6, TP7, TP8, TP9, TP10, TP11, TP12	BERG1x1			BERG1X1	BERG1X1	12	TP
BQ24253RGER	BQ24253RGER	U1	QFN_50P400X400-25	TI	BQ24253RGER	VQFN-24\QFN-RGER	BQ24253RGER	1	R
TPS54227DDAR	TPS54227DDAR	U2	SOIC127P600-9	TI	TPS54227DDAR	SO-8\SO PowerPAD DDA	TPS54227DDAR	1	TPS54227DDAR
TPS63020DSJT	TPS63020DSJT	U3	SON50P300X400-15	TI	TPS63020DSJT	14VSON\DSJT	TPS63020DSJT	1	TPS63020DSJT
TPS61165	TPS61165DBVR	U4	SOT23-6	TI	TPS61165DBVR	SOT-23\DBVR	TPS61165	1	TPS61165DBVR