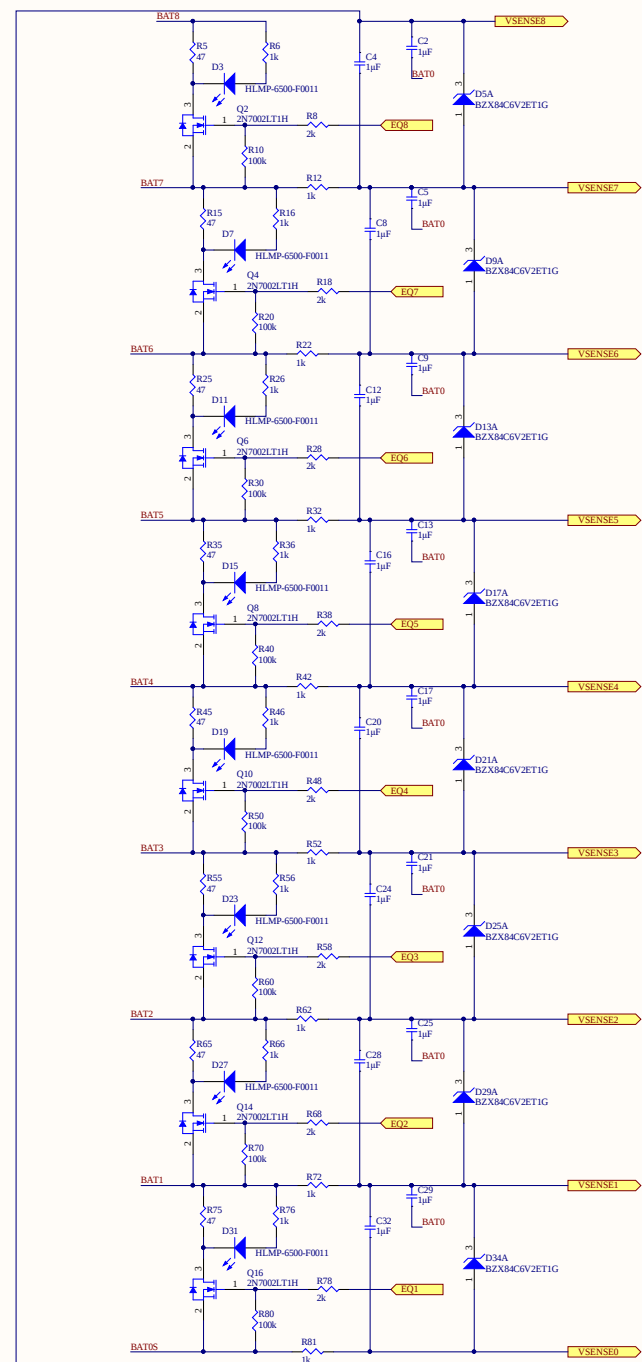
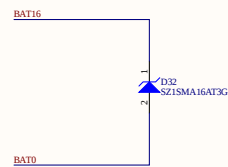
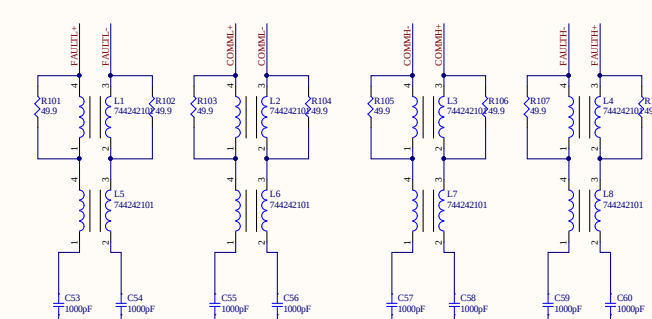
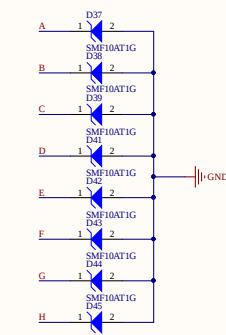
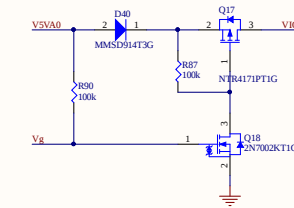
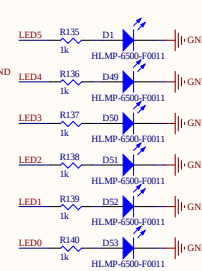
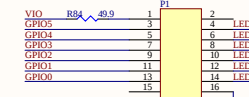
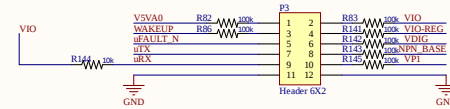
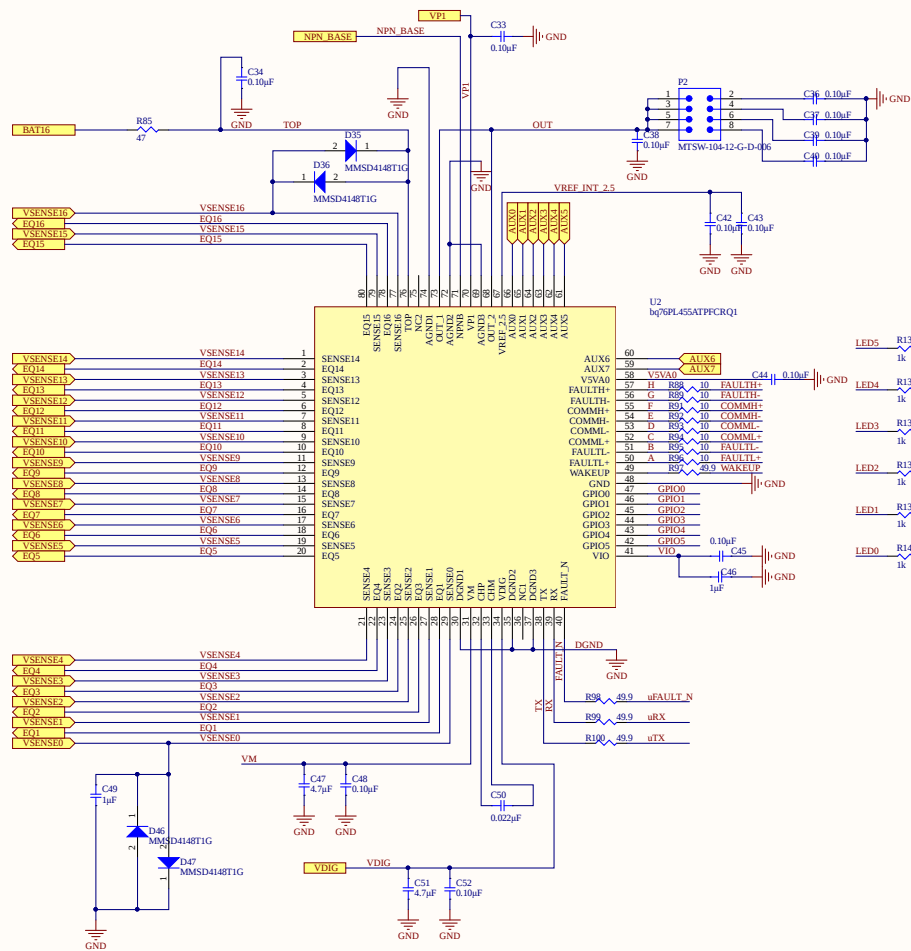
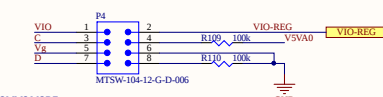




Title Passive BMS		Cannot open file	
Size C	Number	Revision	
Date: 28-12-2019	Sheet of		
File: D:\College Work\Passive BMS F1-Share\	D:\College Work\Passive BMS F1-Share\Shaurva Anand		

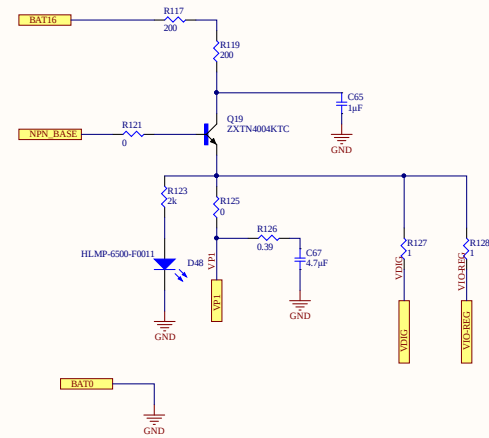
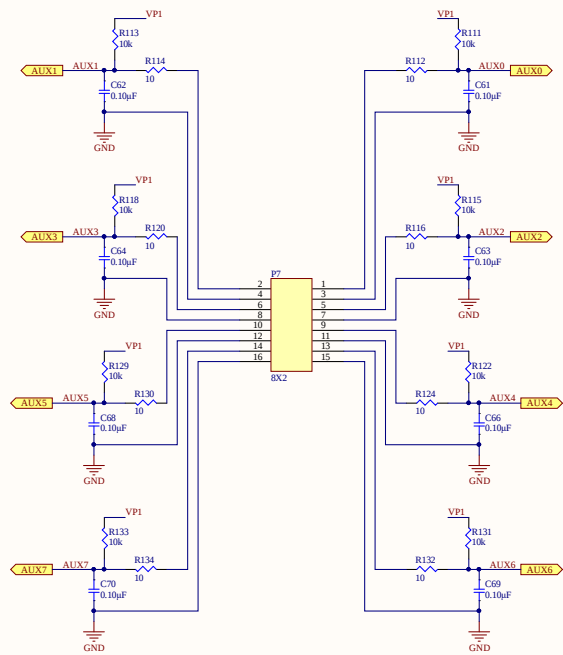


VSA0 VSA0



COMM5 MODE
 SINGLE ENDED DIFFERENTIAL
 PIN1 OPEN PIN 2 SHORTED TO PIN 1
 PIN3 SHORTED TO PIN 4 PIN 4 OPEN
 PIN5 OPEN PIN 6 SHORTED TO PIN 5
 PIN 7 SHORTED TO PIN 8 PIN 8 OPEN

Title		Passive BMS		Cannot open file	
Size	C	Number		Revision	
Date:	28-12-2019		Sheet	of	
File:	D:\College Work\Passive_BMS_EI-SHAURYA ANAND\BMS_Shaurya Anand				



Comment	Description	Designator	Footprint	LibRef	Quantity
	CAP CER 11uF 100V X7R 1206, CAP CER 11uF 50V X7R 1206	C1, C3, C5, C6, C9, C10, C13, C14, C17, C18, C21, C22, C25, C26, C29, C30, C69	GCM31CR72A105K A09, GCJ31MR71H105K A12L		17
1uF		C3, C4, C7, C8, C11, C12, C15, C16, C19, C20, C23, C24, C27, C28, C31, C32, C46, C49	BMD-1206C		
1uF	CAP CER 11uF 25V Y5R 0603		BMD-0603C	GRM18PKE1E108M A13D	18
0.10uF	CAP CER 0.1uF 50V X7R 0603	C33, C36, C37, C38, C39, C40, C42, C43, C44, C46, C48, C52, C61, C62, C63, C64, C66, C68, C69, C70	BMD-0603C	GCJ38B71H104KA 12D	20
0.10uF	CAP CER 0.1uF 100V X7R 1210	C34	BMD-1210C	GRM32N72A104K A01L	1
4.7uF	CAP CER 4.7uF 10V X5R 0603	C47, C51	BMD-0603C	GRT18MR1C475M E13D	2
0.022uF	CAP CER 0.022uF 50V X7R 0603	C50	BMD-0603C	GRT18MR1H225K 11D	1
1000pF	CAP CER 1000pF 10V X7R 1206	C53, C54, C56, C56, C57, C58, C59, C60	BMD-1206C	GRM31BR73A102K W01L	8
4.7uF	CAP CER 4.7uF 50V X7S 1206	C67	BMD-1206C	GCJ31EC71H475K A09L	1
HLMP-6500-F0031	Subminiature Green LED Lamp	D1, D2, D3, D6, D7, D10, D11, D14, D15, D18, D19, D22, D23, D26, D27, D30, D33, D48, D49, D50, D51, D52, D53	2.2x2.1x2.9	HLMP-6500-F0011	23
8278ACV02ET1G	General Voltage Regulator, 225 mA, 3-Pin SOT-23, Pb-Free, Tape and Reel	D4, D5, D8, D9, D12, D13, D16, D17, D20, D21, D24, D25, D28, D29, D33, D34	ONSC-SOT-23-3 318-06_V	RZ8ACV02ET1G	16
SZ15MA16AT3G	400 W Peak Power Zener Transient Voltage Suppressor, 2-Pin SMA, Pb-Free, Tape and Reel	D32	ONSC-SMA-2- 403D-02_V	SZ15MA16AT3G	1
MMSD4148T1G	Switching Diode 2-Pin SOD-123, Pb- Free, Tape and Reel	D35, D36, D46, D47	ONSC-SOD-123-2- 425-04_V	MMSD4148T1G	4
5MF10AT1G	250 W Transient Voltage Suppressor, 2-Pin SOD-123L, Pb- Free, Tape and Reel	D37, D38, D39, D41, D42, D43, D44, D45	ONSC-SOD-123FL- 2-496_V	5MF10AT1G	8
MMSD914T3G	Switching Diode 2-Pin SOD-123, Pb- Free, Tape and Reel	D40	ONSC-SOD-123-2- 425-04_V	MMSD914T3G	1
22X1		U1	22X1	22X1	1
744242101	EMD Common Mode Line Filter WE-SLM, L = 100 uH	L1, L2, L3, L4, L5, L6, L7, L8	WE-SLM	744242101	8
8X2		P1	8X2-1	8X2	1
MTSW-104-12-G-D-006	Modified 025" SQ Foot Header, Through-hole, Terminal, 55 to 125 degC, 2.54 mm Pitch, 8-Pin, Male, 006	P2, P4	4X2	MTSW-104-12-G-D- 006	2
Header 6X2	Header, 6-Pin, Dual row	P3	HD6X6	Header 6X2	1
4X1		P5, P6	4X15	4X1	2
8X2		P7	8X2	8X2	1
2N7002,1H	Small Signal MOSFET, 60 V, 113 mA, N-Channel, 3- Pin SOT-23, Pb- Free, Tape and Reel	Q1, Q2, Q3, Q4, Q5, Q6, Q7, Q8, Q9, Q10, Q11, Q12, Q13, Q14, Q15, Q16	ONSC-SOT-23-3- 318-06_V	2N7002,1H	16
NTP473PT1G	Power MOSFET, - 50 V, 3.5 A, Single P-Channel, 3-Pin SOT-23, Pb-Free, Tape and Reel	Q17	ONSC-SOT-23-3- 318-06_V	NTP473PT1G	1
2N7002K1G	Small Signal MOSFET, 60 V, 380 mA, Single, N- Channel, 3-Pin SOT-23, Pb-Free, Tape and Reel	Q18	ONSC-SOT-23-3- 318-06_V	2N7002K1G	1
ZXTN4004KTC	Trans, GP BJT NPN, 100V, 1A, 3- Pin, 2+ Tab, TO- 263 T18	Q19	*TO252	ZXTN4004KTC	1
1x	RES SMD 1K OHM 1% 1/10W 0603	R1, R2, R4, R6, R11, R12, R14, R16, R21, R22, R24, R26, R31, R32, R34, R36, R41, R42, R44, R46, R51, R52, R54, R56, R61, R62, R64, R66, R71, R72, R74, R76, R81, R135, R136, R137, R138, R139, R140	BMD-0603-RES	ERJ-3EF1001V	39
47	RES SMD 47 OHM 1% 1W 2512	R3, R5, R13, R15, R23, R25, R33, R35, R43, R45, R53, R55, R63, R65, R73, R75, R85	BMD-2512-RES	ERJ-17NF4700J	17
2x	RES SMD 2K OHM 1% 1/10W 0603	R7, R8, R17, R18, R27, R28, R37, R38, R47, R48, R57, R58, R67, R68, R77, R78, R123	BMD-0603-RES	ERJ-3EF2001V	17
100K	RES SMD 100K OHM 1% 1/10W 0603	R9, R10, R18, R20, R29, R30, R39, R40, R49, R50, R59, R60, R69, R70, R79, R80, R87, R90, R109, R110	BMD-0603-RES	ERJ-3EF1000V	20
100K	RES SMD 80.6KOHM 0.1% 1/10W 0603	R82, R83, R86, R141, R142, R143, R146	*PREC1608X50N	1-1878747-1	7
48 9	RES SMD 48.9 OHM 1% 1/10W 0603	R88, R89, R98, R99, R100, R101, R102, R103, R104, R105, R106, R107, R108	BMD-0603-RES	ERJ-3EF4899V	13
10	RES SMD 10 OHM 1% 1/10W 0603	R89, R99, R91, R92, R93, R94, R96, R96, R112, R114, R116, R120, R124, R130, R132, R134	BMD-0603-RES	ERJ-3EF10R0V	16
12K	RES SMD 12K OHM 1% 1/10W 0603	R111, R112, R115, R118, R122, R125, R131, R133	BMD-0603-RES	ERJ-3EF1200V	8
200	RES SMD 200 OHM 1% 1W 2512	R117, R119	BMD-2512-RES	ERJ-17NF2000J	2
0	RES SMD 0.1 OHM 5% 1/8W 0603	R121, R125	BMD-0603-RES	ERJ-L03K100CV	2
0.39	RES SMD 0.39 OHM 1% 1/10W 0603	R126	BMD-0603-RES	ERJ-39QM39V	1
1	RES SMD 1 OHM 1% 1/4W 0603	R127, R128	BMD-0603-RES	ERJ-38QC100V	2
12K	RES SMD 80.6KOHM 0.1% 1/10W 0603	R144	*PREC1608X50N	1-1878747-1	1
Q1	IC	U2	ICQF8501A000140 DX120-80M3	ICQF8501A000140 DX120-80M3	1