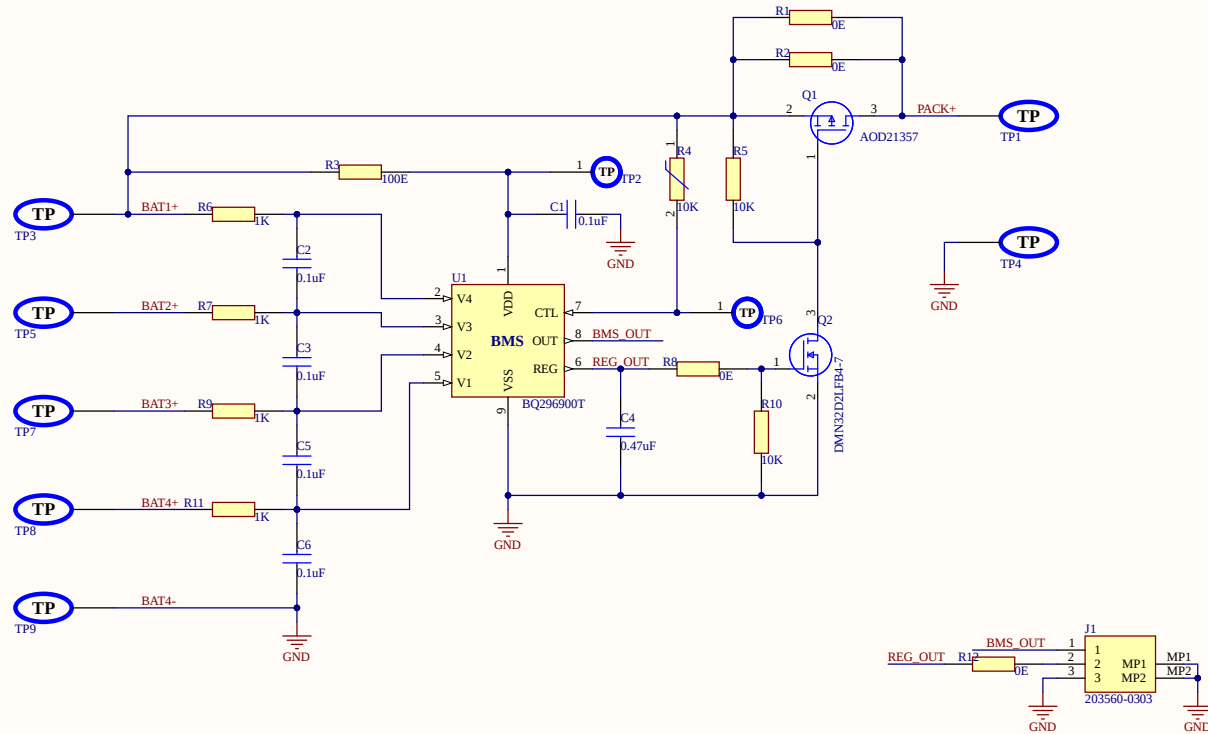


BATTERY MANAGEMENT SYSTEM

Li Ion Battery Single Cell
 1) Vmin= 3V
 2) Vmax= 4.2V
 3) Vnom= 3.7V
Li Ion Battery Four Cell
 1) Vmin= 12V
 2) Vmax=16.8V
 3) Vnom= 14.8V



Comment	Description	Designator	Footprint	LibRef	Quantity
0.1uF	CAP-MLCC, 0.1uF, 50VDC, 5%, X7R, 0402	C1, C2, C3, C5, C6	CAP_0402_A	04025C104JAT2A	5
0.47uF	CAP-MLCC, 0.47uF, 25VDC, 10%, X5R, 0402	C4	CAP_0402_A	GRM155R61E474KE01D	1
203560-0303	CONN, Headers, Male, 1x3, 1mm, 1.5A, Straight, Shrouded, SMD	J1	203560-0303	203560-0303	1
AOD21357	MOSFET, P-Channel, 30V, 70A, 8mE, 78W, TO-252	Q1	SOT95P237X112-3N	AOD21357	1
DMN32D2LFB4-7	MOSFET, N-Channel, 30V, 300mA, 1.2E, 350mW, X1-DFN1006-3	Q2	DMN32D2LFB47	DMN32D2LFB4-7	1
0E	RES, 0E, 1W, 5%, 1206, AEC-Q200	R1, R2	RESC3216X42N	PMR18EZPJ000	2
100E	RES, 100E, 0.5%, 1/10W, 0402, AEC-Q200	R3	RES_0402_A	ERJ-H2RD1000X	1
10K	THERMISTOR-PTC, 10K, -25°C to 125°C, ±50%, 0402, RES, 10K, 1/10W, 1%, 0402, 100PPM/C, AEC-Q200	R4, R5, R10	RES_0402_A	TPM0S103P110R, RK73H1ETTPD1002F	3
1K	RES, 1K, 1/10W, 1%, 0402, 100PPM/C, AEC-Q200	R6, R7, R9, R11	RES_0402_A	RK73H1ETTPB1001F	4
0E	RES, 0E, 1/16W, 0.1%, 0402	R8, R12	RES_0402_A	MCS04020Z0000ZE000	2
TP1	Test Point, Power, 3mm	TP1, TP3, TP4, TP5, TP7, TP8, TP9		TP1	7
TP	Test Point, 1mm, circle	TP2, TP6		TP2	2
BQ296900T	IC, Battery Management, Lithium-ion, -40°C to +105°C, WSON-8	U1	BQ296900TDSGR	BQ296900TDSGR	1