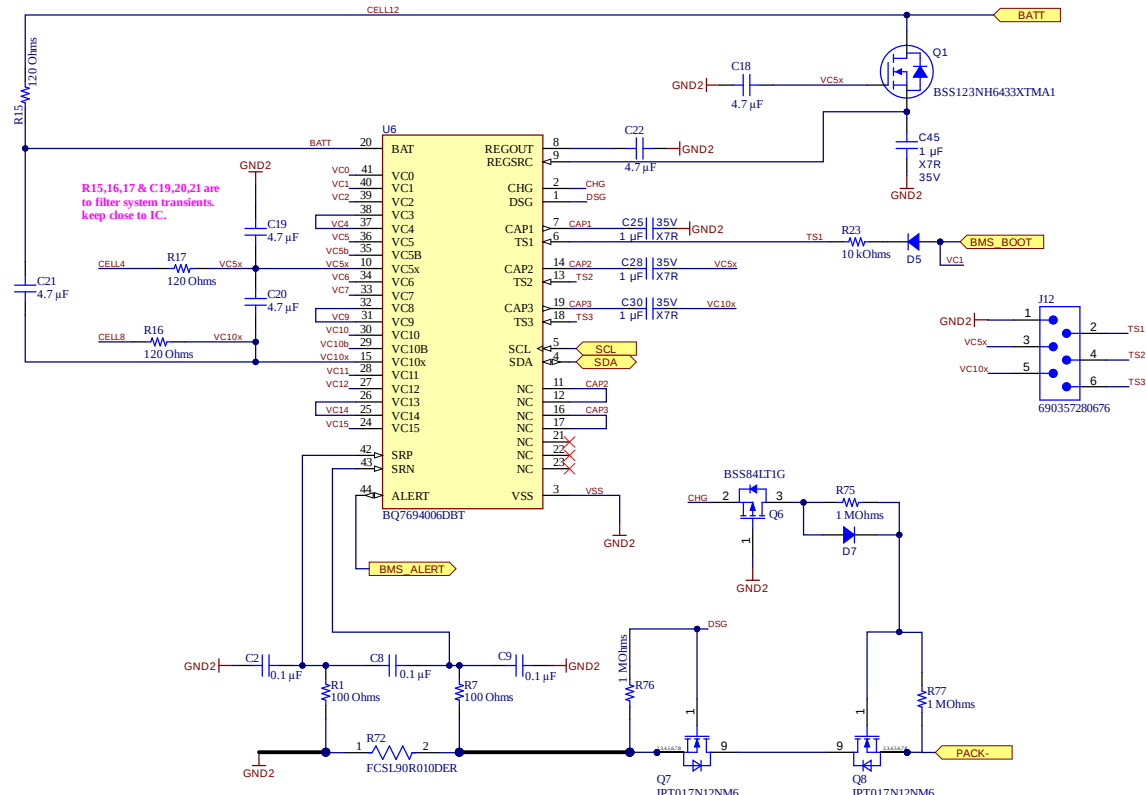
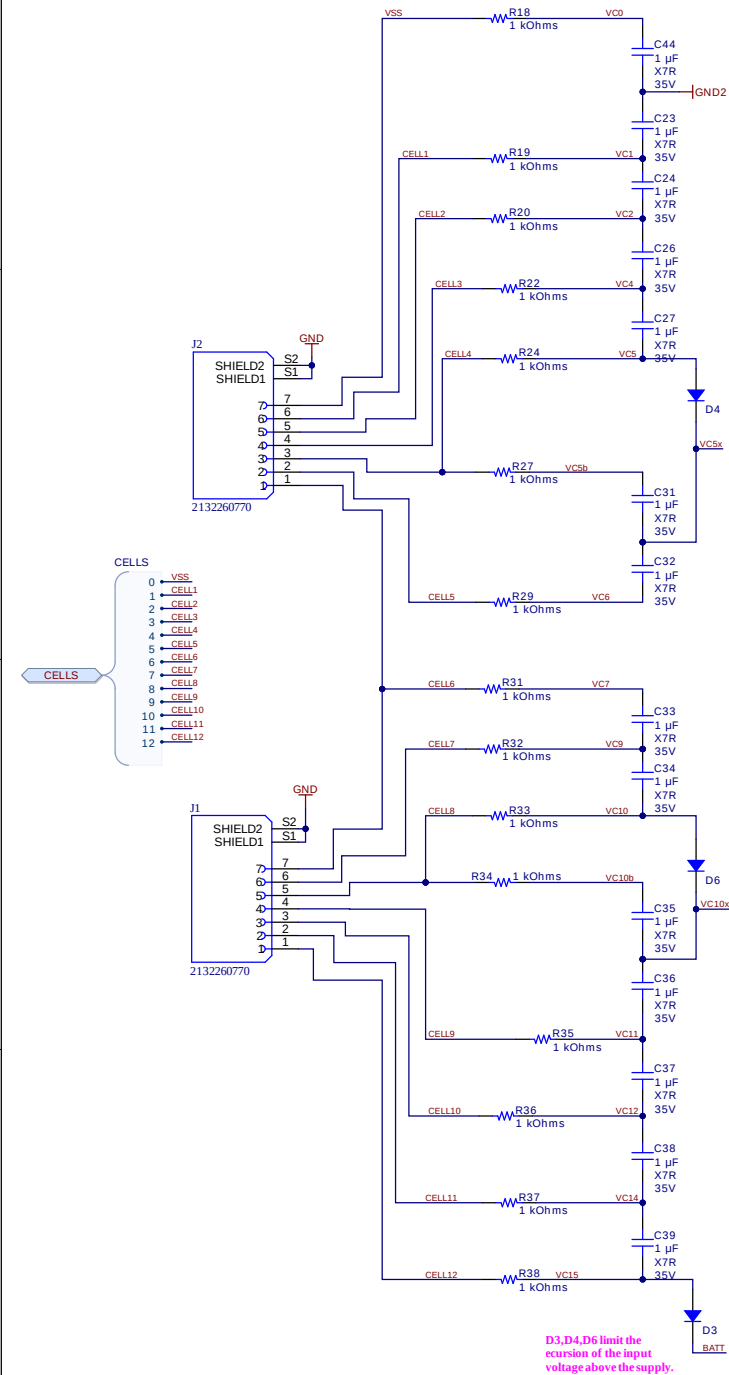




At 14A charge: $10\text{m}\Omega \times 14\text{A} = 140\text{mV}$ (within range)
At 2A discharge: $10\text{m}\Omega \times 2\text{A} = 20\text{mV}$ (sufficient for detection)
Worst case current: 20A
For power dissipation:
 $P = FR = (20\text{A})^2 \times 0.01\Omega = 4\text{W}$

charge/discharge control pins = 5-10mA
BSZ110N06NS3 G's gate charge of ~17nC
Switching time = $17\text{nC} \div 5\text{mA} = 3.4\mu\text{s}$

Table 9-4. Cell Connections for BQ79940											
Cell Input	9 Cells	10 Cells	11 Cells	12 Cells	13 Cells	14 Cells	15 Cells	16 Cells	17 Cells	18 Cells	19 Cells
VC10-VC14	CELL 9	CELL 10	CELL 11	CELL 12	CELL 13	CELL 14	CELL 15	CELL 16	CELL 17	CELL 18	CELL 19
VC14-VC15	short	short	short	short	short	short	short	short	short	short	short
VC15-VC16	short	short	short	short	short	short	short	short	short	short	short
VC16-VC17	CELL 8	CELL 9	CELL 10	CELL 11	CELL 12	CELL 13	CELL 14	CELL 15	CELL 16	CELL 17	CELL 18
VC17-VC18	CELL 7	CELL 8	CELL 9	CELL 10	CELL 11	CELL 12	CELL 13	CELL 14	CELL 15	CELL 16	CELL 17
VC18-VC19	CELL 6	CELL 7	CELL 8	CELL 9	CELL 10	CELL 11	CELL 12	CELL 13	CELL 14	CELL 15	CELL 16
VC19-VC20	short	short	short	short	short	short	short	short	short	short	short
VC20-VC21	short	short	short	short	short	short	short	short	short	short	short
VC21-VC22	short	short	short	short	short	short	short	short	short	short	short
VC22-VC23	short	short	short	short	short	short	short	short	short	short	short
VC23-VC24	CELL 4	CELL 5	CELL 6	CELL 7	CELL 8	CELL 9	CELL 10	CELL 11	CELL 12	CELL 13	CELL 14
VC24-VC25	short	short	short	short	short	short	short	short	short	short	short
VC25-VC26	short	short	short	short	short	short	short	short	short	short	short
VC26-VC27	short	short	short	short	short	short	short	short	short	short	short
VC27-VC28	short	short	short	short	short	short	short	short	short	short	short
VC28-VC29	short	short	short	short	short	short	short	short	short	short	short
VC29-VC30	CELL 1	CELL 2	CELL 3	CELL 4	CELL 5	CELL 6	CELL 7	CELL 8	CELL 9	CELL 10	CELL 11
VC30-VC31	CELL 1	CELL 2	CELL 3	CELL 4	CELL 5	CELL 6	CELL 7	CELL 8	CELL 9	CELL 10	CELL 11
VC31-VC32	CELL 1	CELL 2	CELL 3	CELL 4	CELL 5	CELL 6	CELL 7	CELL 8	CELL 9	CELL 10	CELL 11
VC32-VC33	CELL 1	CELL 2	CELL 3	CELL 4	CELL 5	CELL 6	CELL 7	CELL 8	CELL 9	CELL 10	CELL 11
VC33-VC34	CELL 1	CELL 2	CELL 3	CELL 4	CELL 5	CELL 6	CELL 7	CELL 8	CELL 9	CELL 10	CELL 11
VC34-VC35	CELL 1	CELL 2	CELL 3	CELL 4	CELL 5	CELL 6	CELL 7	CELL 8	CELL 9	CELL 10	CELL 11
VC35-VC36	CELL 1	CELL 2	CELL 3	CELL 4	CELL 5	CELL 6	CELL 7	CELL 8	CELL 9	CELL 10	CELL 11
VC36-VC37	CELL 1	CELL 2	CELL 3	CELL 4	CELL 5	CELL 6	CELL 7	CELL 8	CELL 9	CELL 10	CELL 11
VC37-VC38	CELL 1	CELL 2	CELL 3	CELL 4	CELL 5	CELL 6	CELL 7	CELL 8	CELL 9	CELL 10	CELL 11
VC38-VC39	CELL 1	CELL 2	CELL 3	CELL 4	CELL 5	CELL 6	CELL 7	CELL 8	CELL 9	CELL 10	CELL 11
VC39-VC40	CELL 1	CELL 2	CELL 3	CELL 4	CELL 5	CELL 6	CELL 7	CELL 8	CELL 9	CELL 10	CELL 11