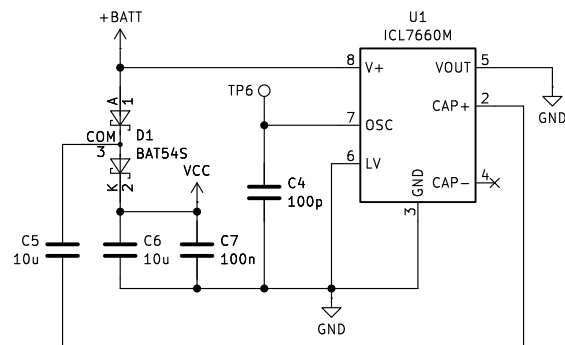
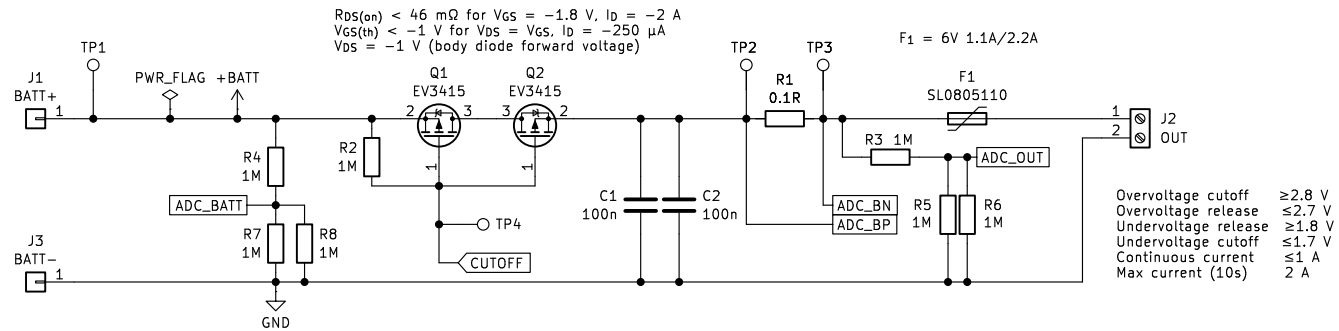




The expected current load of the charge pump is lower than 1 mA . For this light load, we will lower the oscillation frequency to 1 kHz to increase efficiency. The output source resistance will be $\pm 100 \text{ }\Omega$ for temperatures between -25°C and 50°C and supply voltages in the range of $1.5\text{--}2.8 \text{ V}$.

Expected output voltage is:
 $V_{CC} = 2.66 \text{ V}$ for $V_{BATT} = 1.7 \text{ V}$
 $V_{CC} = 4.86 \text{ V}$ for $V_{BATT} = 2.8 \text{ V}$

$LV = \text{GND}$ for $V_+ < 3.5 \text{ V}$
 $LV = \text{open}$ for $V_+ \geq 3.5 \text{ V}$
 $C_{osc} = 100 \text{ pF} \rightarrow f_{osc} = 1 \text{ kHz}$
 $f_{osc} = 1 \text{ kHz} \rightarrow \eta = 98\%$ for $I_{OUT} < 1 \text{ mA}$

