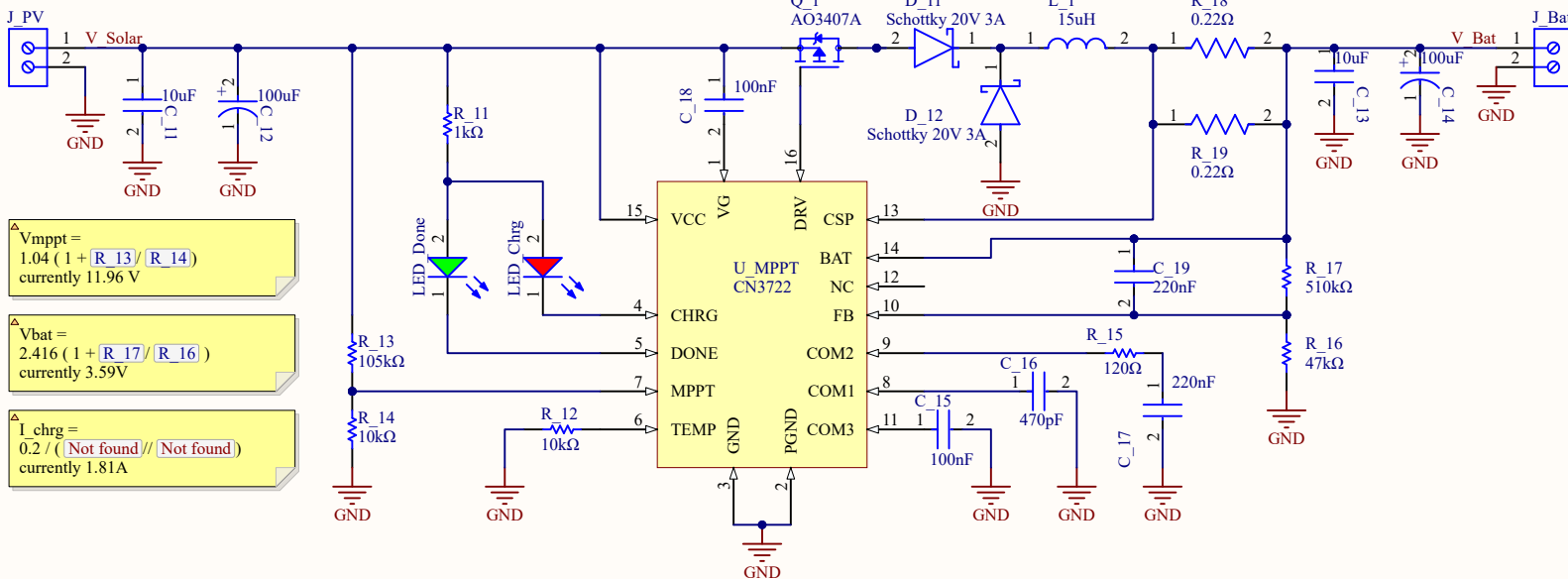


# Solar Controller & Battery Charger



$$V_{mppt} = 1.04 (1 + \frac{R_{13}}{R_{14}})$$

currently 11.96 V

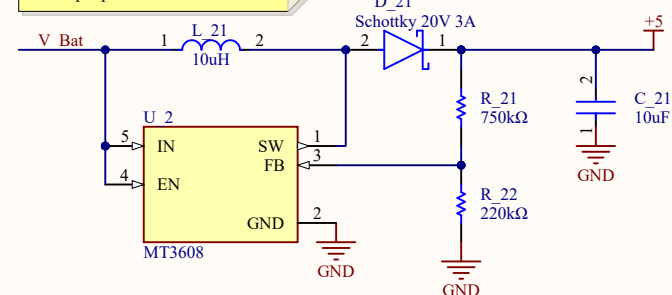
$$V_{bat} = 2.416 (1 + \frac{R_{17}}{R_{16}})$$

currently 3.59V

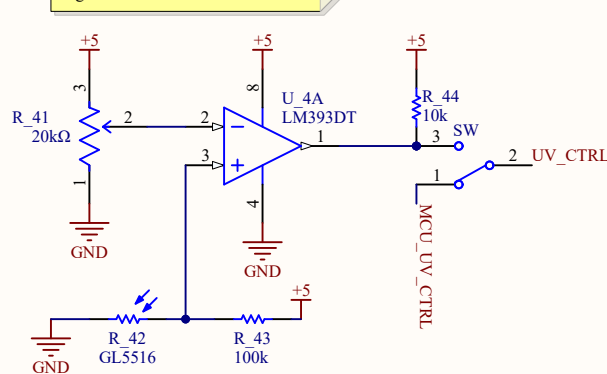
$$I_{chg} = 0.2 / (\frac{R_{13}}{R_{14}})$$

currently 1.81A

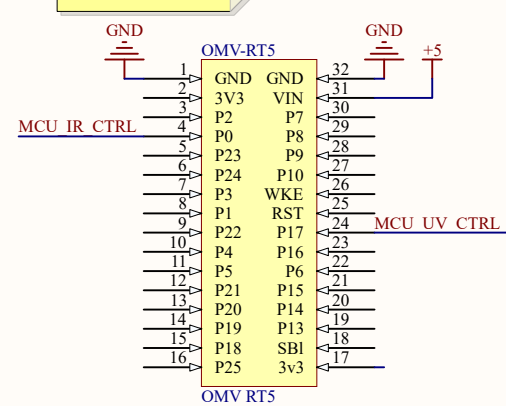
## 5V Step Up



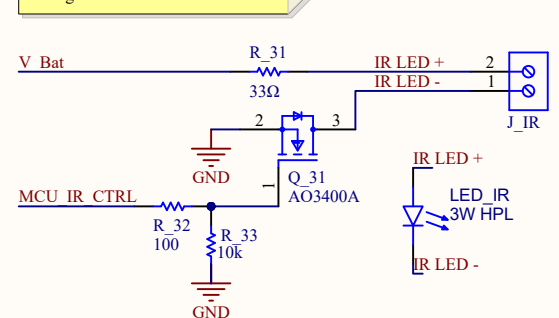
## Light Detector



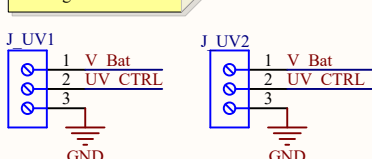
## OMV-RT5



## IR Light



## UV Light



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