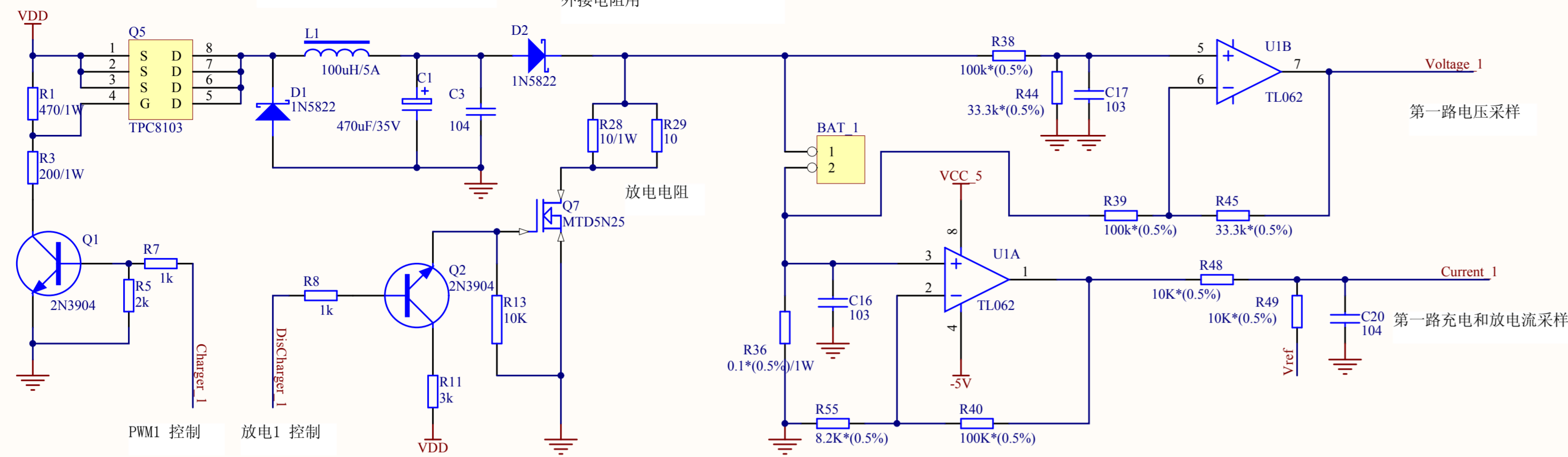


此Mos可能在大电流，高电压充电时存在发热隐患，将换类似TO220封装更常见的MOS

$$L = (V_i - V_{sat} - V_o) \cdot t_{on} / I_{pk}$$

$$(I_{pk} = 2V_{0max}, V_{sat} = V_{ds})$$

放电电阻默认放一个，另外一个放段子，提供大家根据不同电池外接电阻用



第一路电压采样

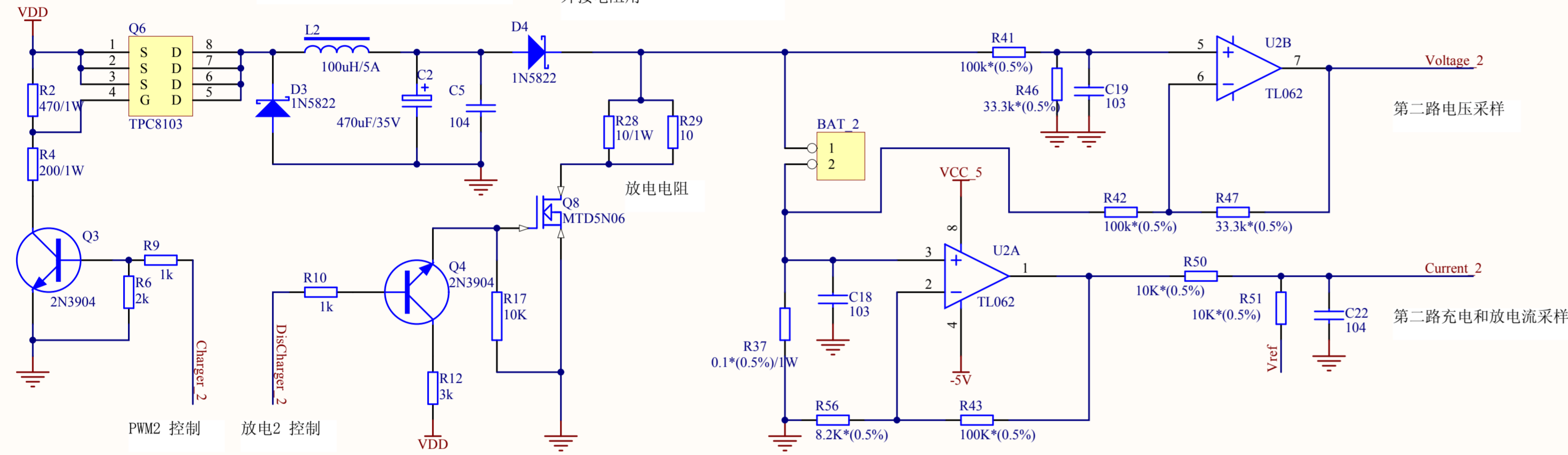
第一路充电和放电电流采样

此Mos可能在大电流，高电压充电时存在发热隐患，将换类似TO220封装更常见的MOS

$$L = (V_i - V_{sat} - V_o) \cdot t_{on} / I_{pk}$$

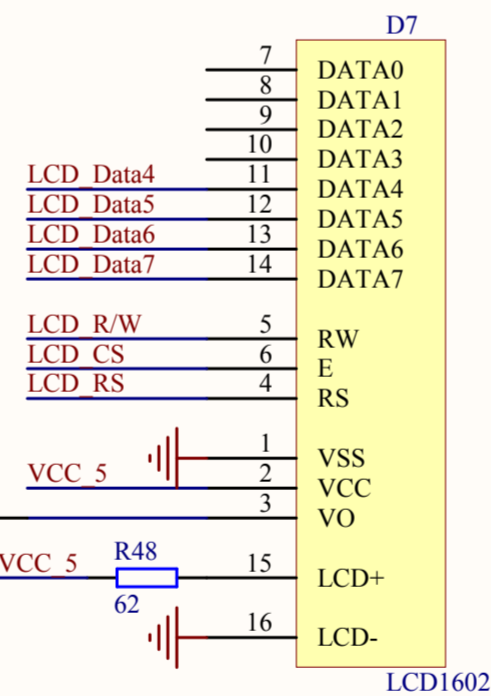
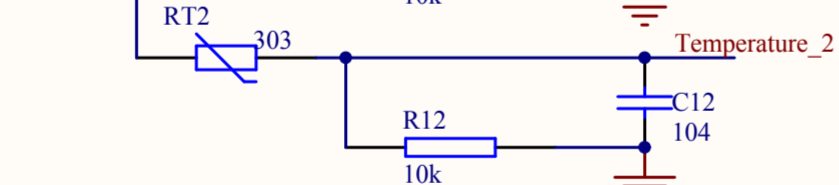
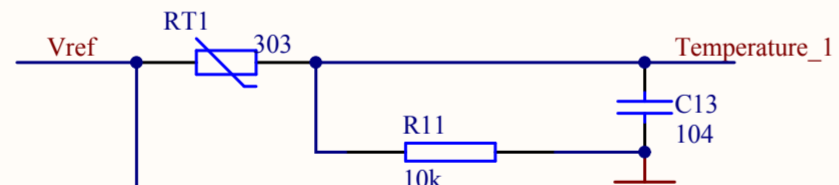
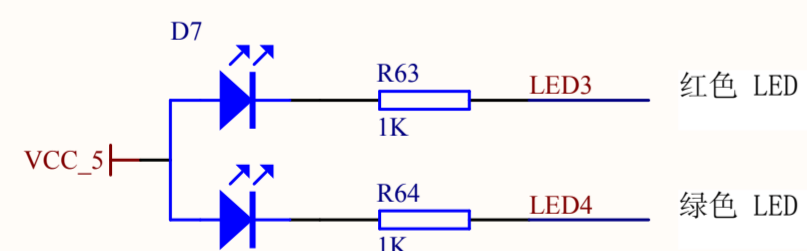
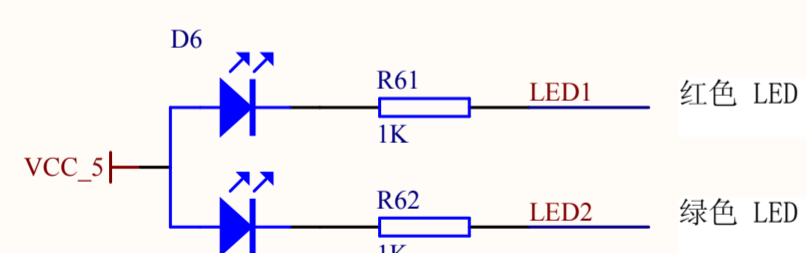
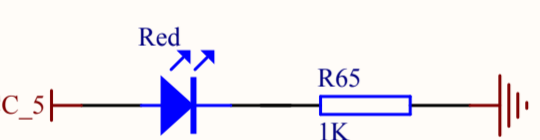
$$(I_{pk} = 2V_{0max}, V_{sat} = V_{ds})$$

放电电阻默认放一个，另外一个放段子，提供大家根据不同电池外接电阻用

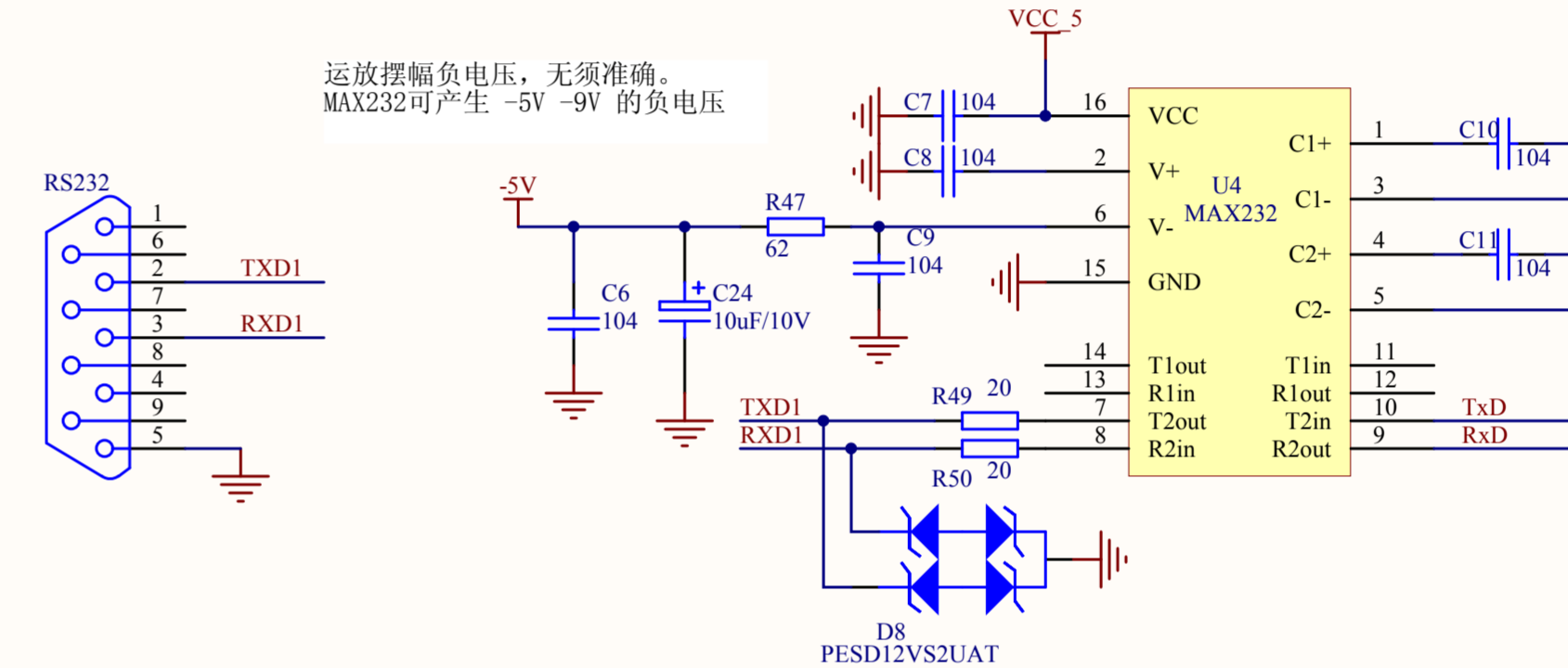


第二路电压采样

第二路充电和放电电流采样

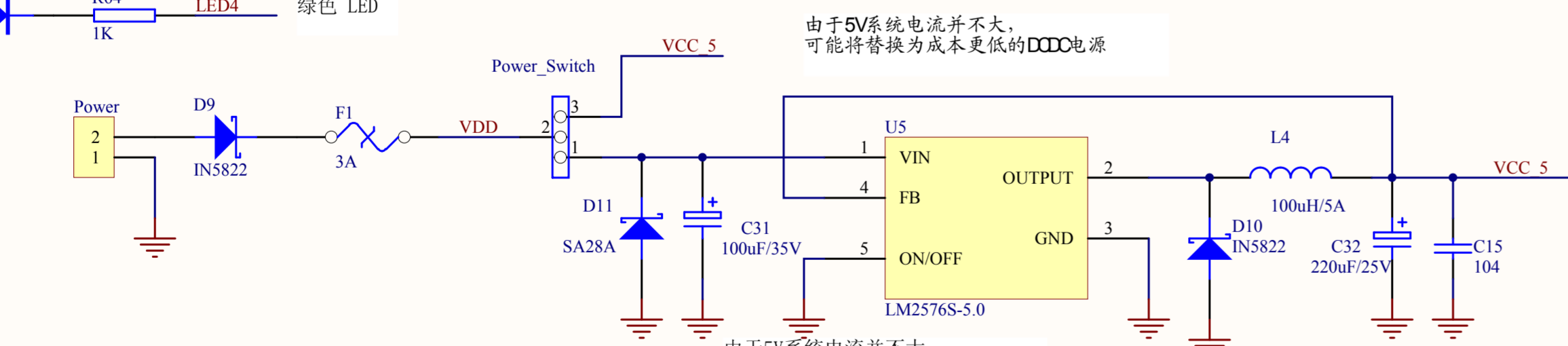


运放摆幅负电压，无须准确。MAX232可产生-5V -9V 的负电压



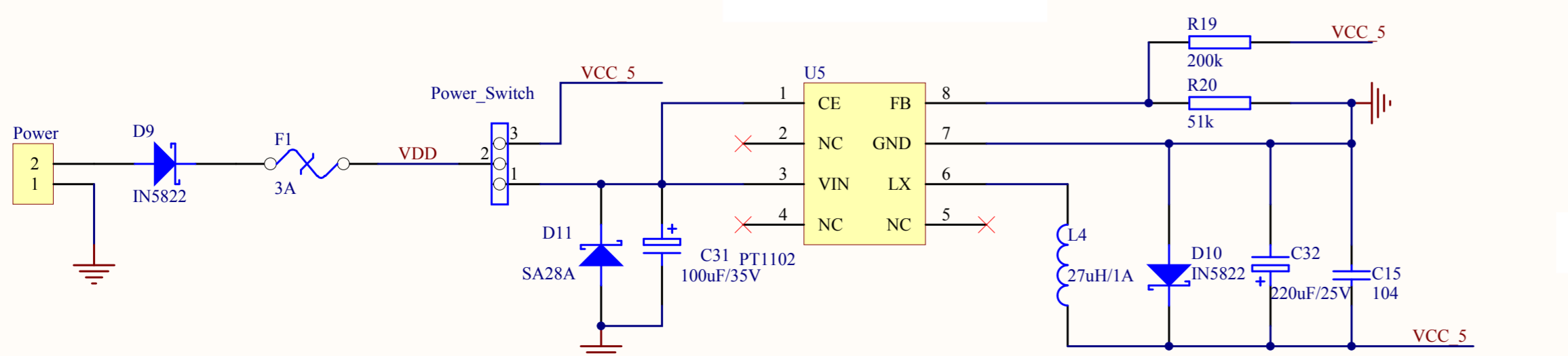
此处使用的为串口延长线，非交叉线线

由于5V系统电流并不大，可能将替换为成本更低的DCDC电源



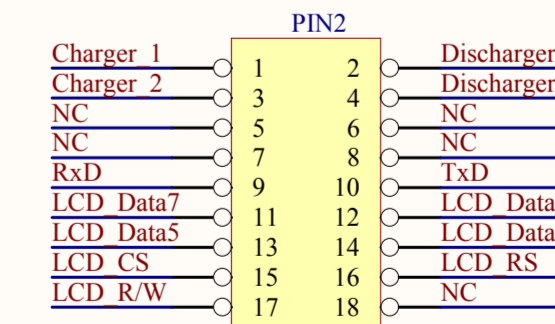
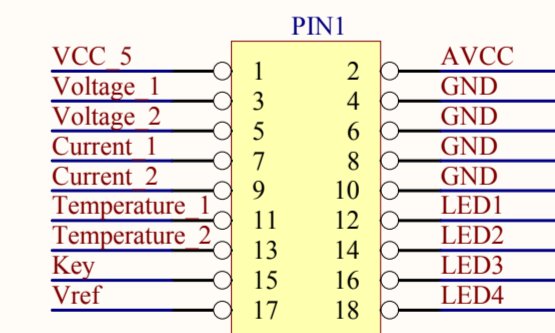
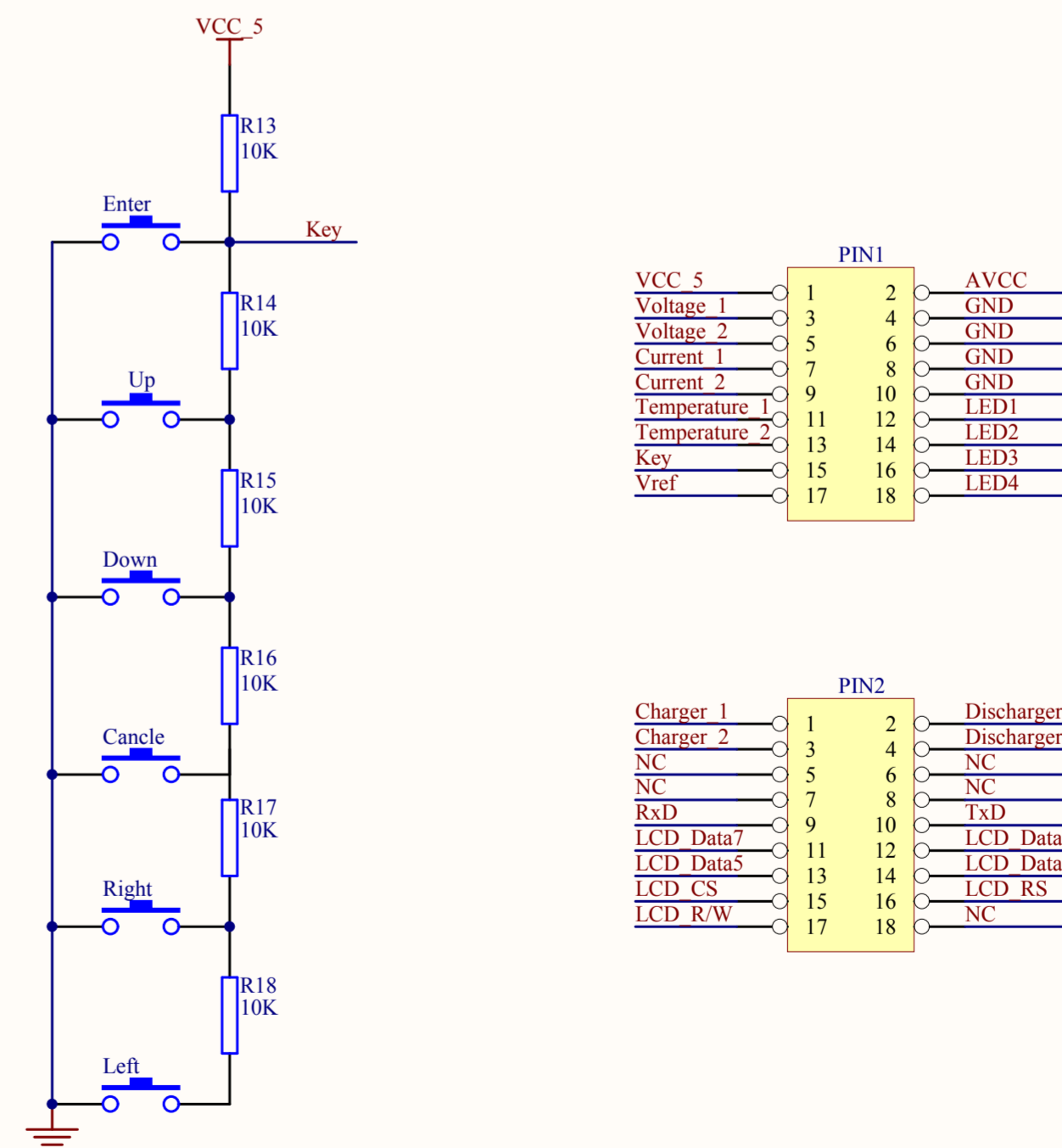
5V

由于5V系统电流并不大，可能将替换为成本更低的DCDC电源



5V

建议使用别的方式扩展按键。保留ADC便于今后扩展



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