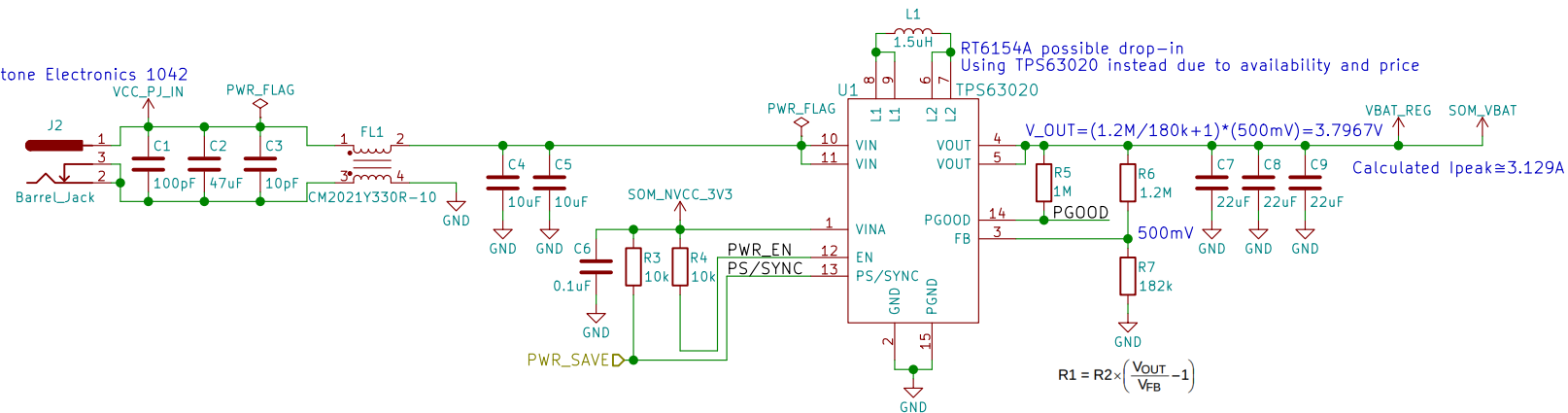
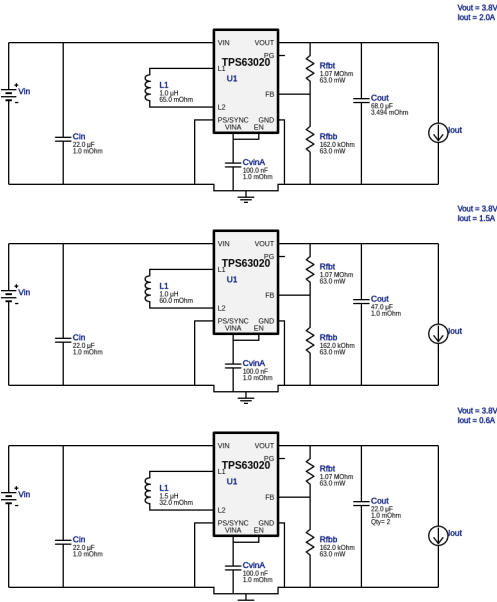


⇒18650 batteries don't reach 3.3V until depleted

Keystone Electronics 1042



Recommendations from TI's Webench:



$V_{FB} = V_{REF} = 500mV$

"The typical value of the voltage at the FB pin is 500mV"

"It is recommended to keep the value for [R2] in the range of 200kΩ; lower than 500kΩ"

Their example application circuit uses 180k for R2, therefore:

$R2 \approx 200k \pm 20k (\pm 10\%)$ or 180k-220k

Given this, $V_{OUT} \approx 3.8V$, $1.1188m \leq R1 \leq 1.452m$

The most common value in this range is 1.2M

Making $R2 \approx 181.818k$ or roughly 182k

Sheet: /Battery/

File: battery.sch

Title:

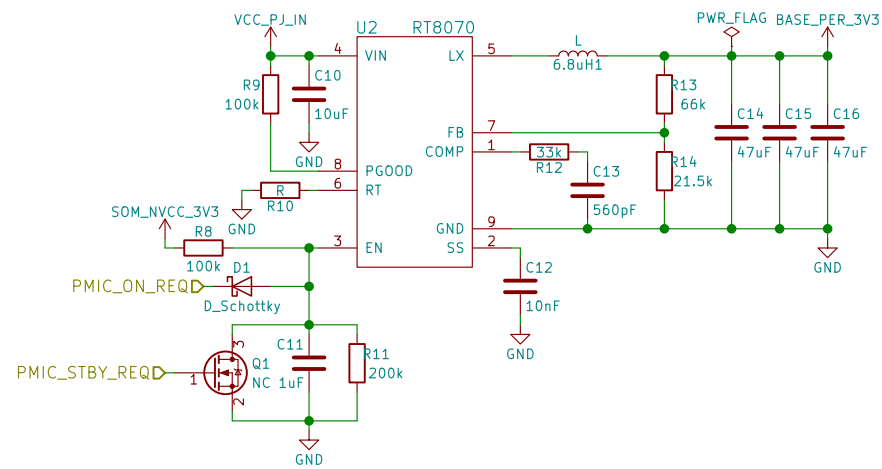
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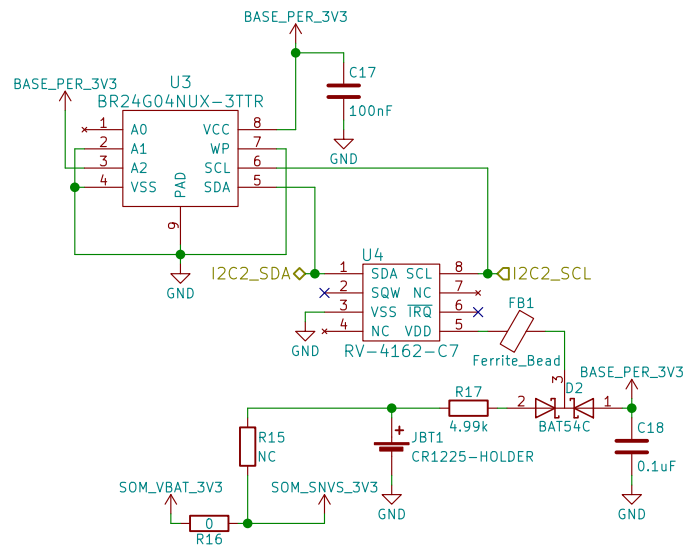
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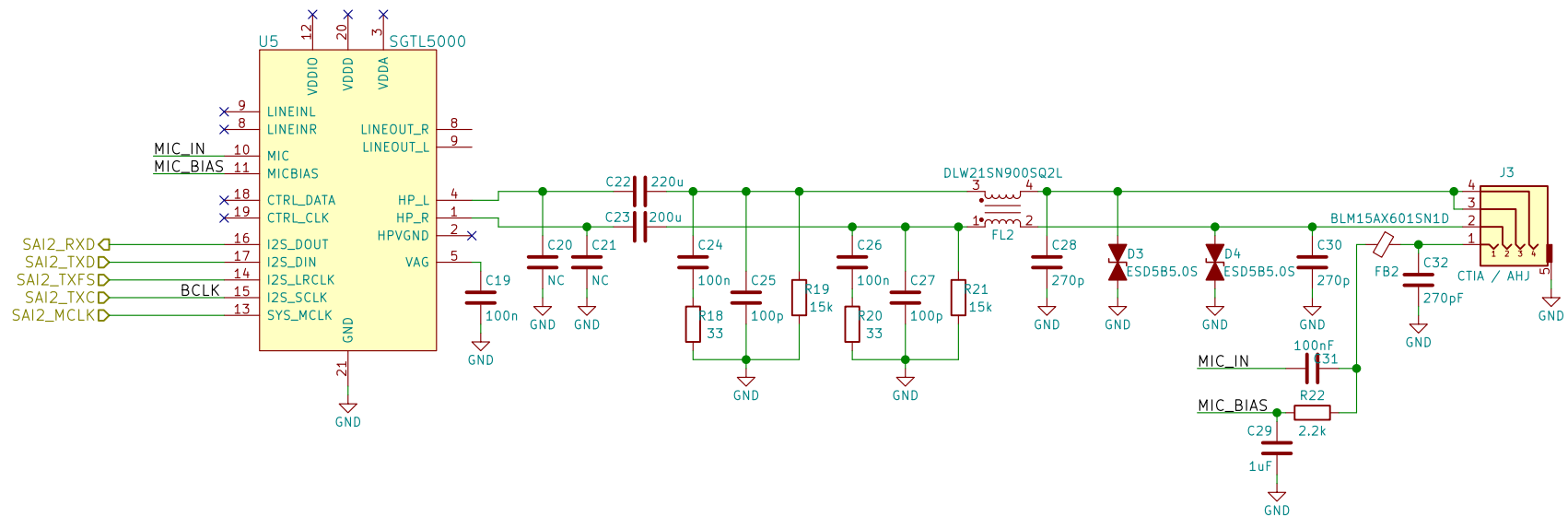
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Id: 4/5



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