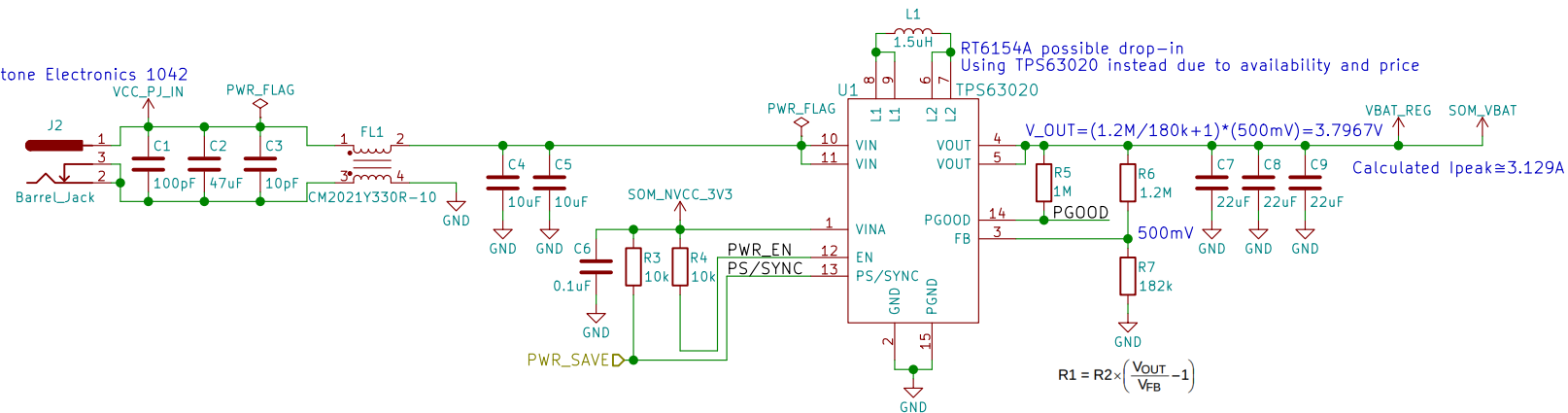
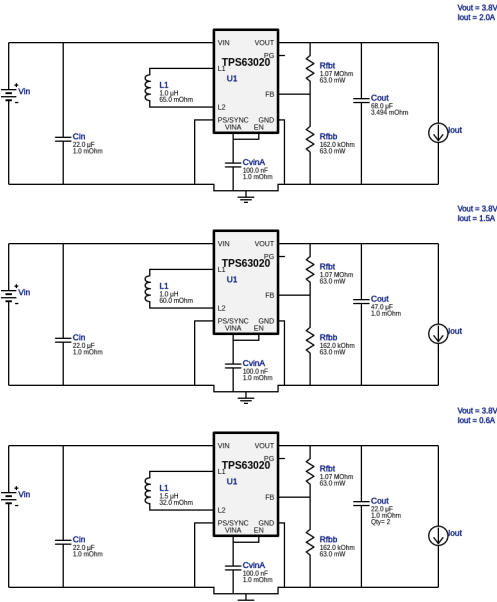


⇒18650 batteries don't reach 3.3V until depleted

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 ≈ 200k ± 20k (±10%) or 180k-220k

Given this, V_{OUT} ≈ 3.8V, 1.1188M ≤ R1 ≤ 1.452M

The most common value in this range is 1.2M

Making R2 ≈ 181.818k or roughly 182k

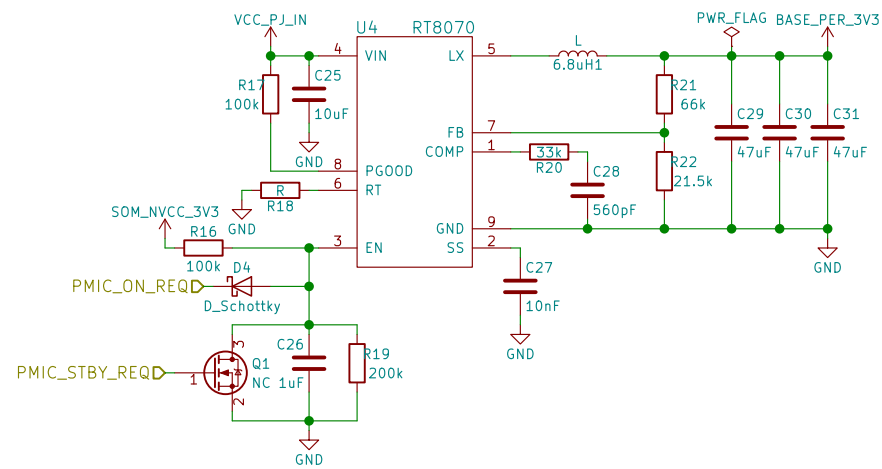
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KiCad E.D.A. kicad 4.0.7

Date:

Rev:
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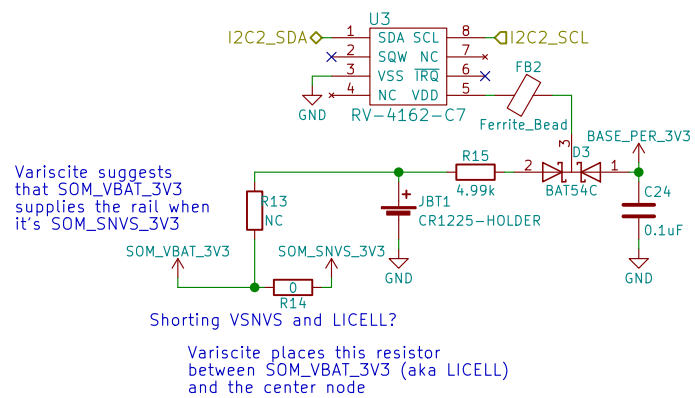
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Rev:
Id: 3/5



Sheet: /RTC Battery/
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Title:

Size: A4
KiCad E.D.A. kicad 4.0.7

Date:

Rev:
Id: 4/5

