

**Layout Consideration** 

Follow the PCB layout guidelines for optimal performance of RT8258.

- Keep the traces of the main current paths as short and wide as possible.
- Put the input capacitor as close as possible to the device pins (VIN and GND).
- PHASE node is with high frequency voltage swing and should be kept at small area. Keep sensitive components away from the PHASE node to prevent stray capacitive noise pick-up.
- Place the feedback components to the FB pin as close as possible.
- Connect the GND to a ground plane for noise reduction and thermal dissipation.

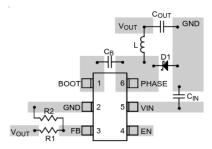
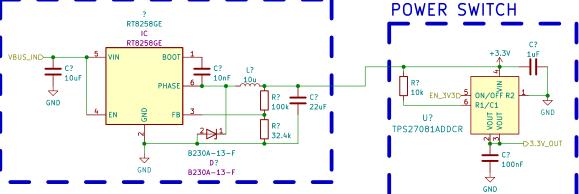


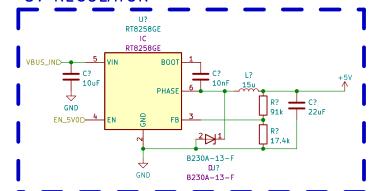
Figure 4. PCB Layout Guide

## 3.3V REGULATOR



Ground Pin. This pin should be connected to the (-) terminal of the output capacitor and it should be kept away from the D1 and input capacitor for noise prevention.

## **5V REGULATOR**



## 10.2 Layout Example

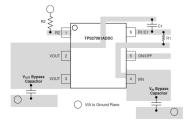


Figure 23. Layout Example

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