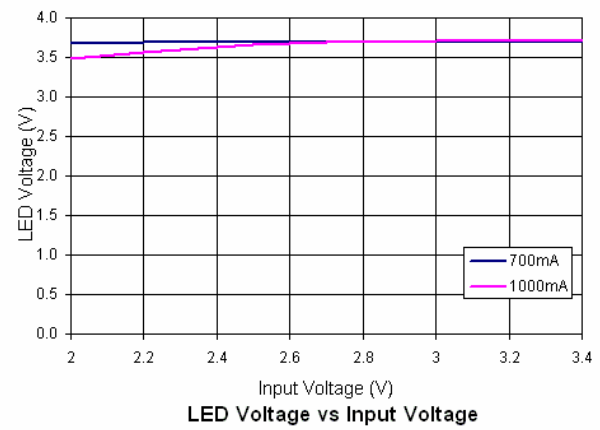
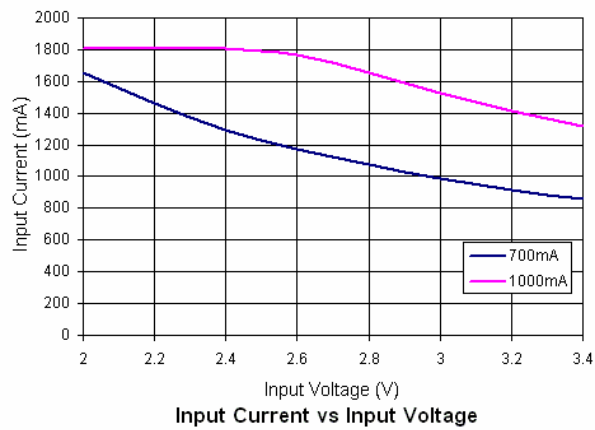
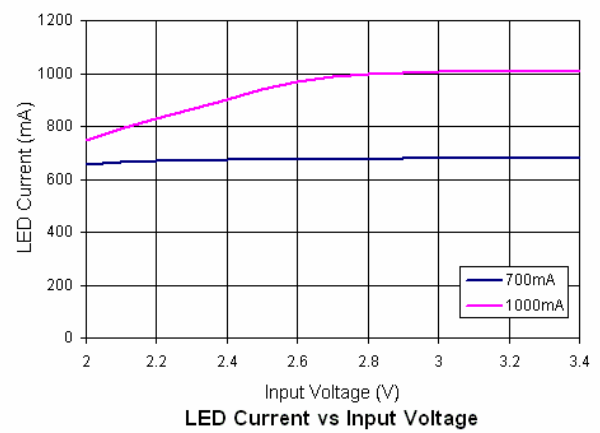
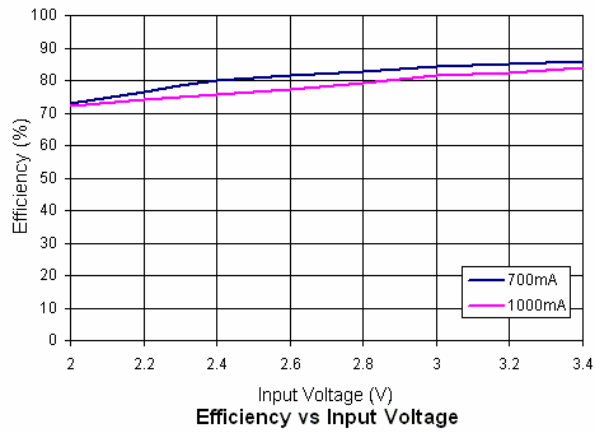
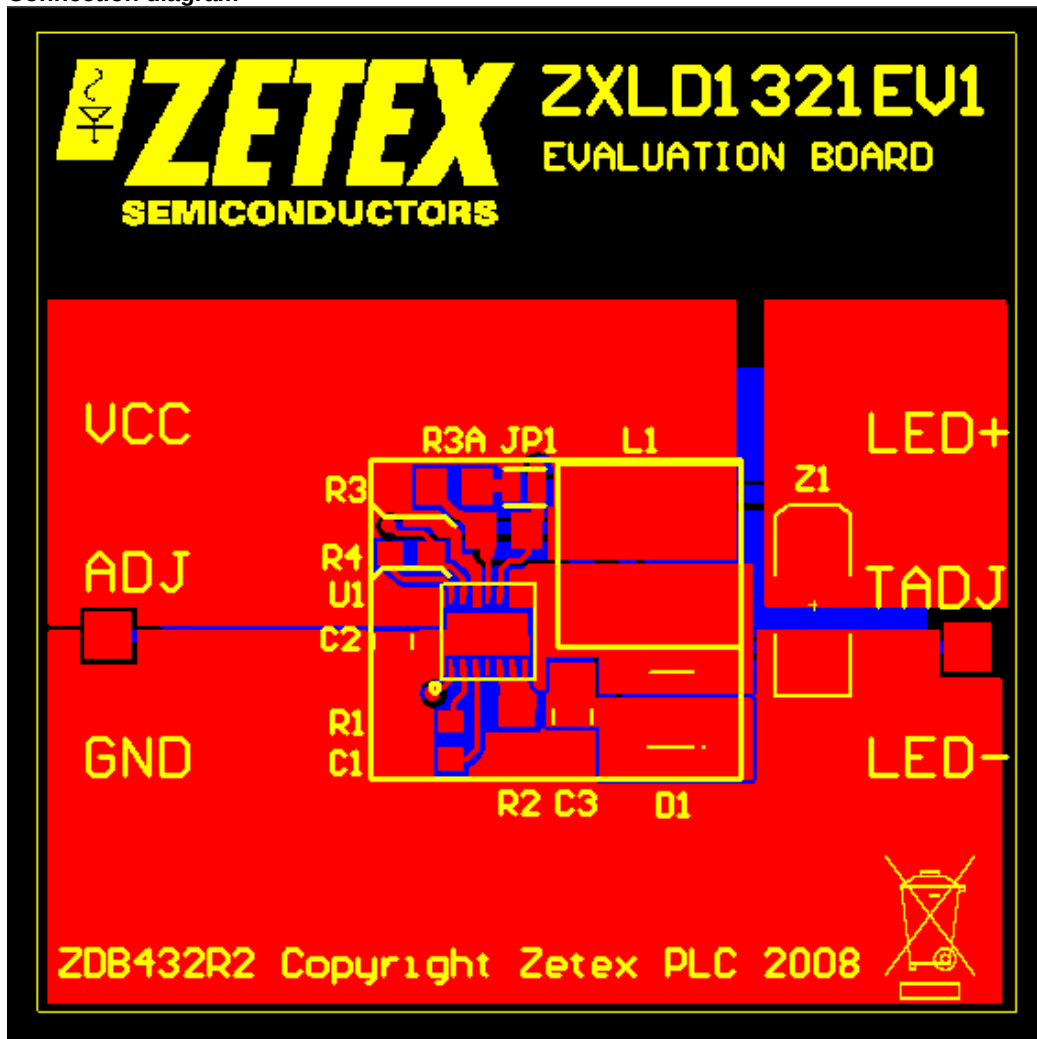


PERFORMANCE**Graphs**

ZXLD1321EV1 OPERATION

Connection diagram

**ZXLD1321EV1 Set-up and Test**

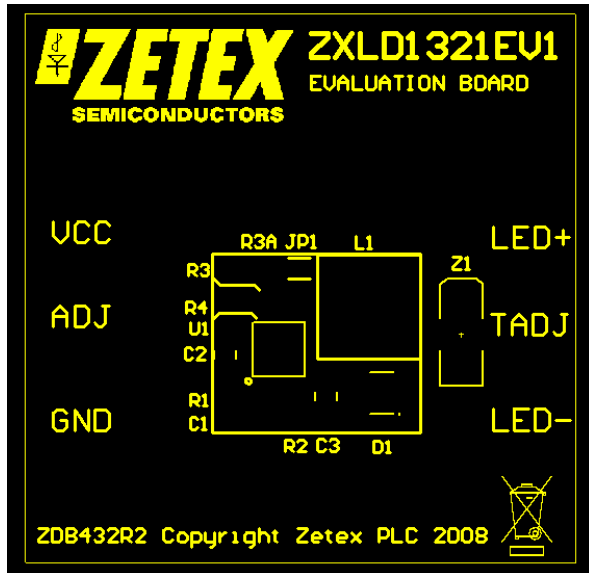
1. Preset the PSU to 3V with a current limit of around 1.8A
2. Connect LED+ and LED- to the Anode and Cathode respectively, of the off-board high power LED .
3. Connect V_{IN} and GND to positive and zero volts of the PSU supply respectively.
4. Set the PSU to 3V.
5. Turn on the PSU.
6. The LED should illuminate and be regulated at 700mA/1000mA +/-5%.
7. The input current should measure between 0.9A and 1.1A for the 700mA option, and between 1.4 A and 1.6A for the 1A option.

Caution: Please make sure the LED is properly connected before applying power. A LED with an appropriate current rating should be used.

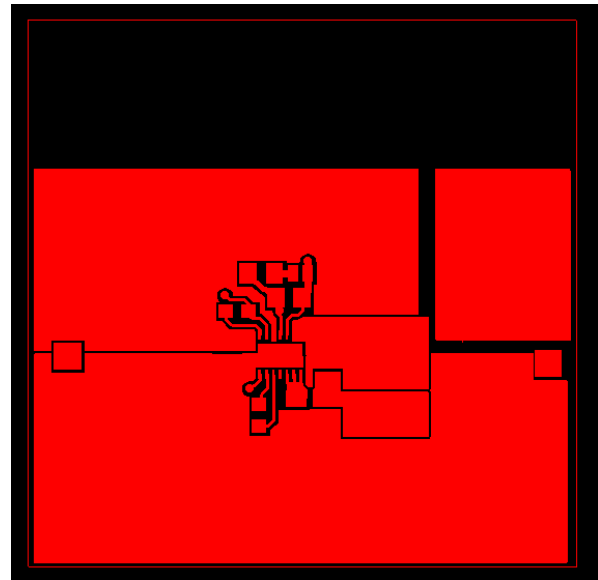
Layout considerations

The PCB tracks should be kept as short as possible to minimize ground bounce, and the ground pin of the device should be soldered directly to the ground plane. It is particularly important to mount the coil and the input/output capacitors close to the device to minimize parasitic resistance and inductance, which will degrade efficiency. Precautions should be taken to avoid noise entering the VIN pin. Input decoupling capacitor C2, between VIN and GND, should be kept as close as possible to the device. Enough copper should be attached to the GND pin (exposed pad) for heat-sinking purposes. In this evaluation board, the copper area is on the bottom layer, connected to the exposed pad through several vias.

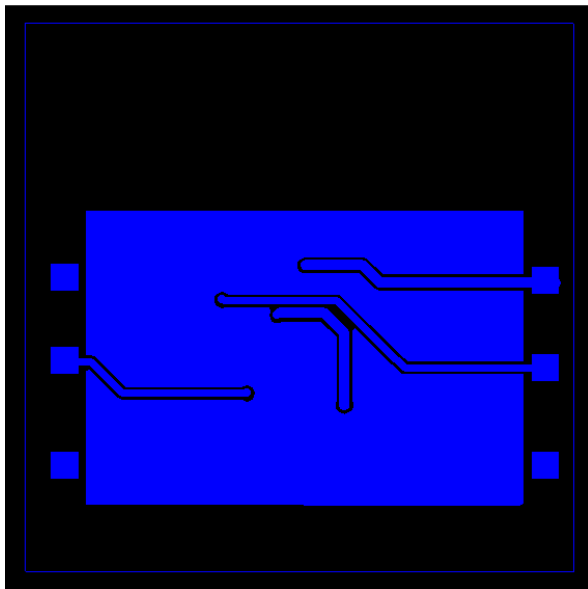
Below is the recommended layout of the ZXLD1321EV1.



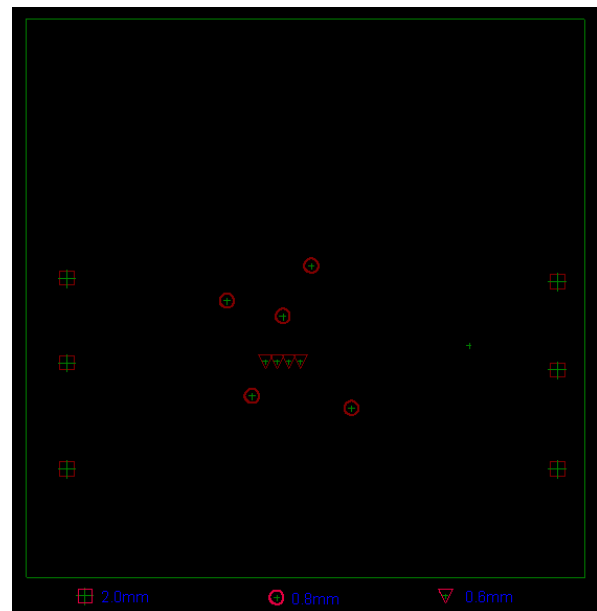
Top Silk



Top Copper



Bottom Copper



Drill File

NOTES

NOTES

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