

TPS61059 – Synchronous 1.5A Switch, Boost DC/DC Converter for Single White LED & Flashlight Applications

One Page Overview

Product Description:

The TPS61059 device is a fixed frequency, synchronous boost dc-dc converter with an integrated down conversion mode. The devices are optimized for driving high power single cell white LEDs up to 800 mA from a 2.7-V to 5.5-V input.

Key Parameters:

- 1500mA Switch Current Limit
- 800mA LED Current From 3.3-V Input
- Efficiency: 80% (max)
- Package: 3x3 QFN-10
- Fixed Frequency 650kHz (typ) Operation

Nano-Evaluation Module Description:

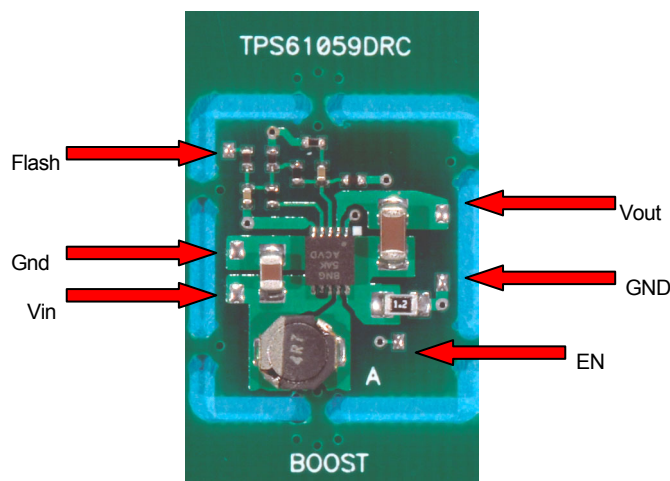
The TPS61059 NanoEVM included within this kit can easily be broken out of the main NanoEVM PCB and have been made as small as possible to be soldered onto a customer's board for evaluation of the device in the system. It contains all the external components needed for correct operation. For full evaluation, please request a standard size EVM (TPS61059EVM-141).

Nano-Evaluation Module Board Use:

Before you connect the EVM to a power supply, please check the picture below to ensure correct electrical connections.

Please note following important device limitations:

- Vin Range: 2.7 to 5.5V



TPS61059 NanoEVM – (PR570)

The Nano EVM is not designed to test the full functionality of the device. For further product information including the board schematics, BOM and the link to the product folder, please visit the following web site: www.ti.com/analogportable

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