



STEVAL-TLL002V1

Flash driver evaluation board based on the STCF01

Data Brief

Features

- For camera flash in cellular phones
- PWM mode control
- High efficiency over wide range of input voltage from 2.6 V to 5.5 V
- Output voltage: 16.5 V
- High switching frequency: 1.5 MHz

Description

This evaluation board is based on the STCF01, that is a white LED driver optimized for driving two to four LEDs from a Li-Ion battery input.

It provides up to 300 mA over an input voltage range of 2.6 V to 5.5 V and it features 16.5 V output voltage, 1.5 MHz internal power switch, internal soft start, open load voltage protection and optimized internal compensation.

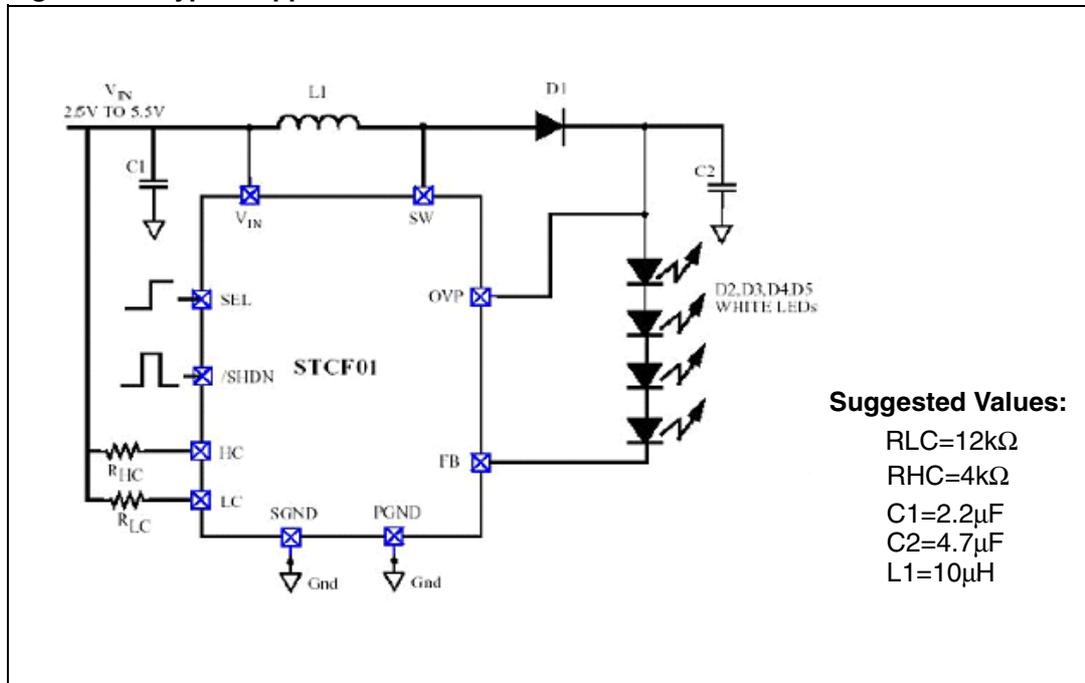
Only an inductor, a Schottky diode, two capacitors and two resistors are required. Besides, a low output ripple is guaranteed by the current mode PWM topology and by the use of low E.S.R. SMD ceramic capacitors

The STCF01 is ideal for camera flash in cellular phones requiring, small circuit size and very high efficiency (up to 90%).



1 Board schematic

Figure 1. Typical application schematic



2 Revision history

Table 1. Document revision history

Date	Revision	Changes
27-Oct-2008	1	Initial release.

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