

STEVAL-ILL039V2

Step-up current controller for 4 LEDs based on the STLDC08 driver

Data brief

Features

■ Input voltage: 0.8 V to 3.6 V

■ Output: 4 LEDs at I_{LED} = 300 mA

■ Dimming mode with external PWM signal

■ RoHS compliant

Description

The purpose of the STEVAL-ILL039V2 demonstration board is to provide an example for applications of an LED driver using the step-up controller STLDC08.

The STLDC08 is designed for handheld equipment supplied by AA or AAA batteries and provides a precise constant current starting from a variable input voltage source.

The LED current is set by an external sense resistor inserted between the feedback pin (FB) and GND.

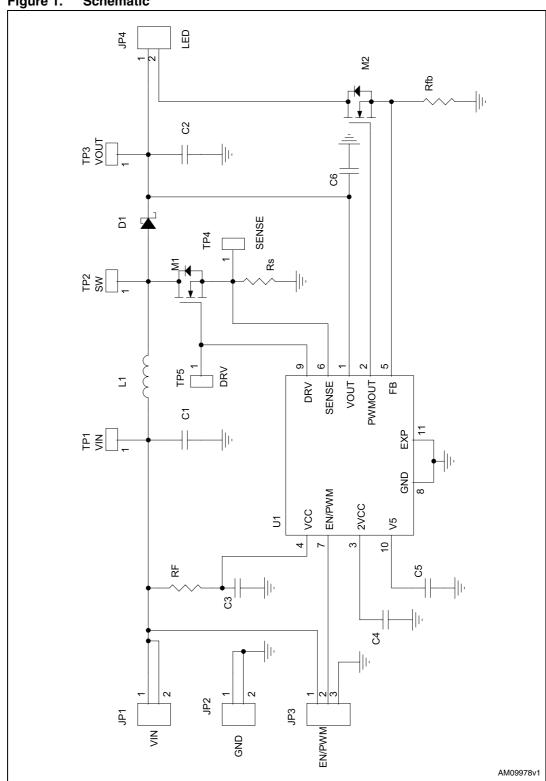
A regulation loop holds the voltage drop at the sense resistor at a constant level (typ. 100 mV).



Schematic STEVAL-ILL039V2

Schematic 1

Figure 1. **Schematic**



STEVAL-ILL039V2 Revision history

2 Revision history

Table 1. Document revision history

Date	Revision	Changes
08-Nov-2011	1	Initial release.

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