

## 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<sub>LED</sub> = 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.

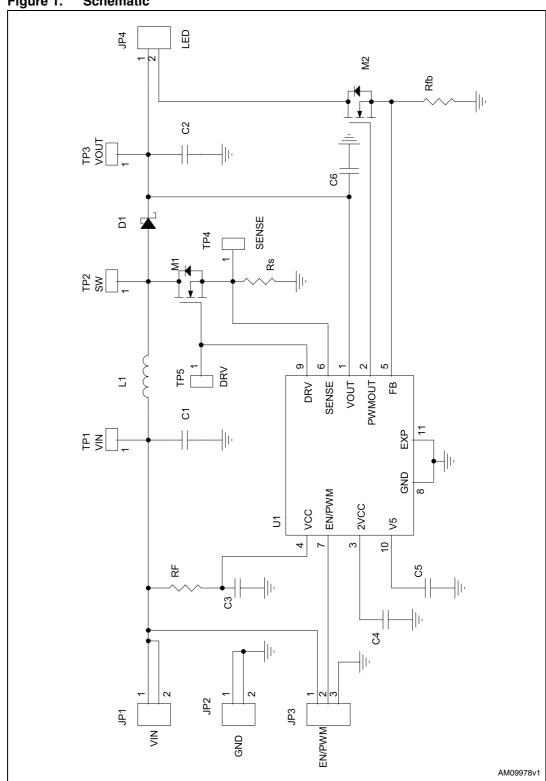
A regulation loop holds the voltage drop at the sense resistor at a constant level (typ. 100 mV).



**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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#### Наши контакты:

**Телефон:** +7 812 627 14 35

Электронная почта: sales@st-electron.ru

Адрес: 198099, Санкт-Петербург,

Промышленная ул, дом № 19, литера Н,

помещение 100-Н Офис 331