STEVAL-ISA131V2

2.8 V - 500 mA, 6 MHz synchronous step-down converter based on ST1S15J28R

Data brief



Description

STEVAL-ISA131V2 is an evaluation board designed around the ST1S15, a high efficiency miniaturized step-down converter able to provide 500 mA output current from an input voltage of 2.3 V to 5.5 V. This converter working at 6 MHz switching frequency and is specifically designed for applications where high efficiency and small application area are the key factors.

Features

- 85% typical efficiency
- 500 mA output current capability
- 45 µA typical quiescent current
- PFM or PWM operation for best efficiency over whole load range
- Ultra-fast load and line transient
- Short-circuit and thermal protection
- Tiny external components
- Auto or forced PWM selection with dedicated pin
- ST1S15J28R in Flip Chip 6 bumps Package
- RoHS compliant

For further information contact your local STMicroelectronics sales office

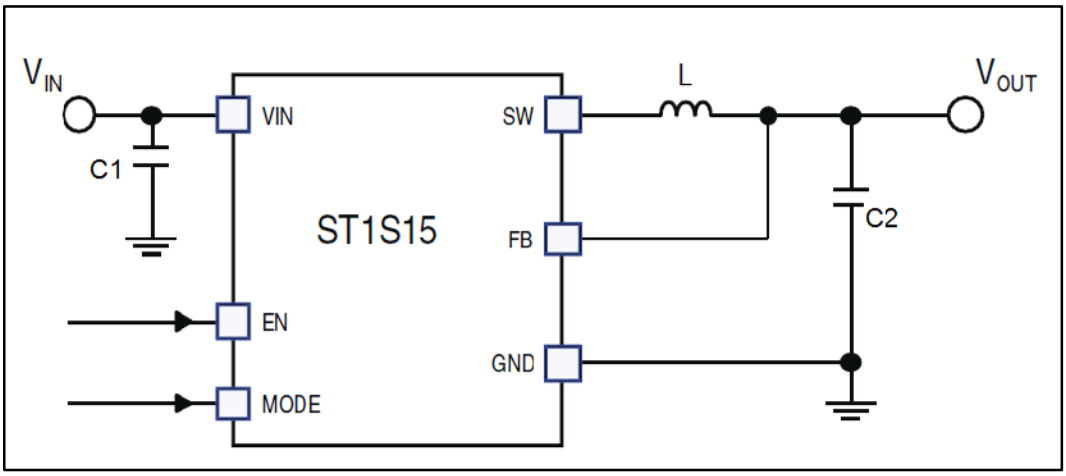
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1 Schematic diagram

Figure 1: Schematic circuit



2 Revision history

Table 1: Document revision history

Data	Revision	Changes
29-Jul-2014	1	Initial release

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