

STEVAL-IHM012V1

Cordless drill evaluation board information based on Power MOSFET and 8-pins MCU

Data Brief

Features

- DC motor speed regulation system (DC chopper).
- Battery voltage check
- High current protection
- Torque limitation

Description

This STEVAL-IHM012V1 evaluation board employs a traditional design that illustrates how the chopper circuit controls a brush DC motor with a microcontroller as a driver. The purpose of the board is to demonstrate an ST solution for lowend cordless power tools, such as cordless drills or screwdrivers, but can be an ideal starting point for the design of any application where driving a low voltage DC brush motor is required. Based on a Power MOSFET and microcontroller, the electronic driver is a simple, cost-effective solution for designers.

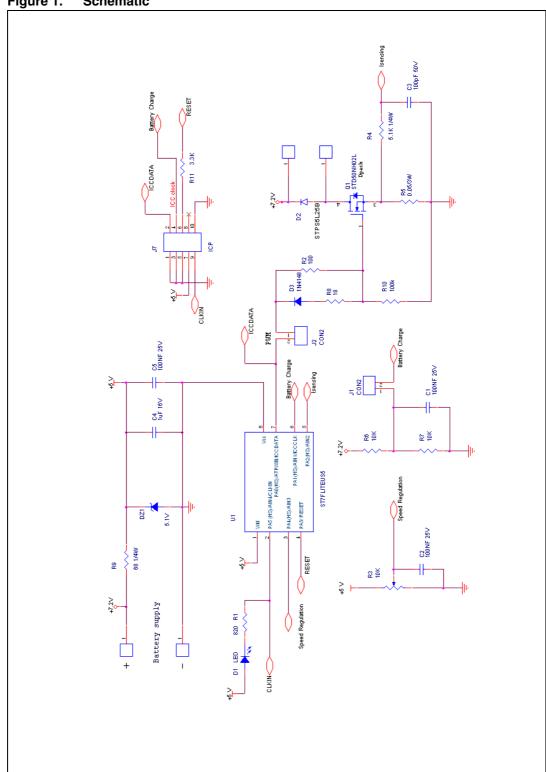


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Block diagram STEVAL-IHM012V1

1 Block diagram

Figure 1. Schematic



STEVAL-IHM012V1 Revision history

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Table 1. Document revision history

Date	Revision	Changes
24-Oct-2007	1	Initial release

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