



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

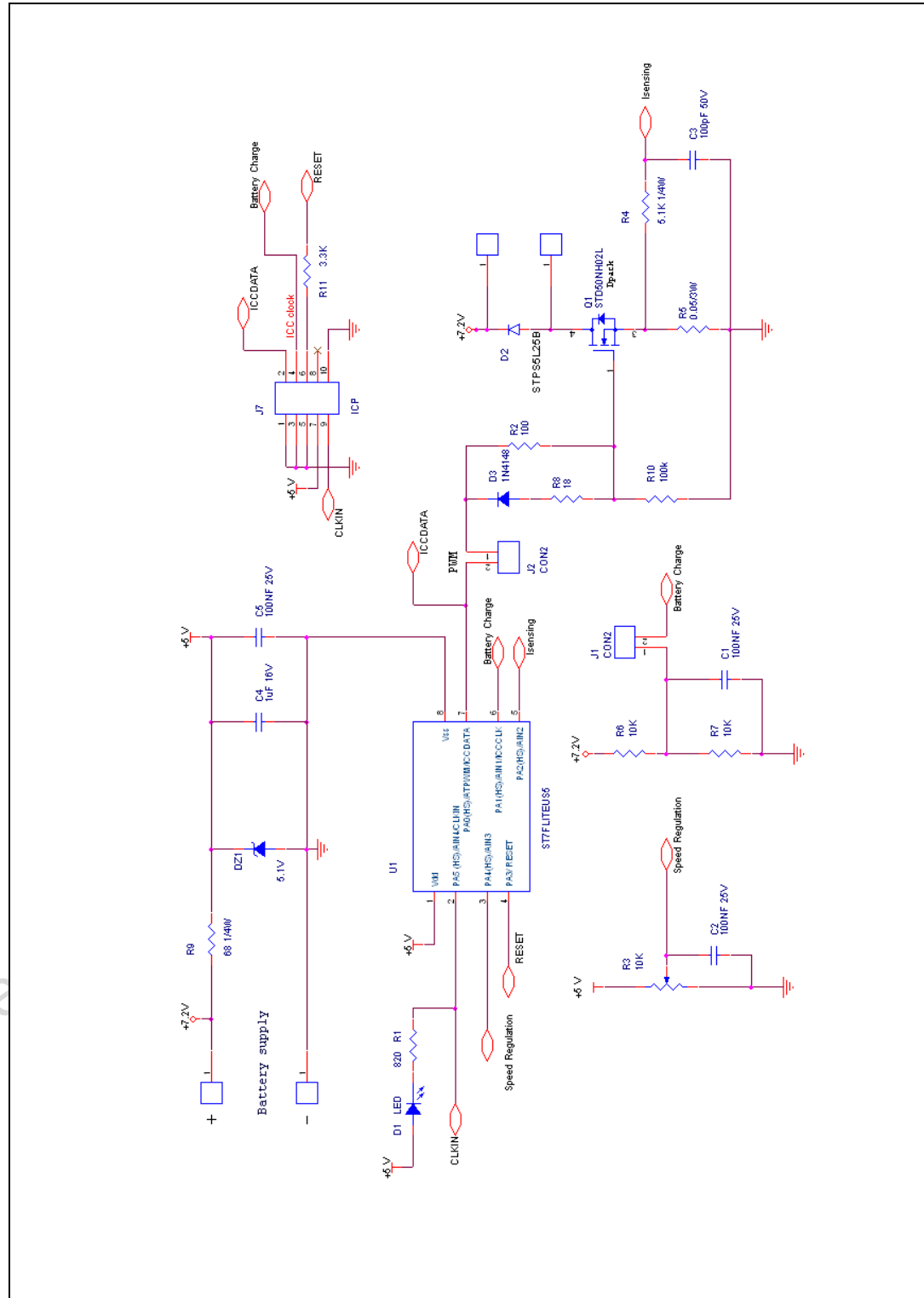
Description

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 low-end 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.



1 Block diagram

Figure 1. Schematic



2 Revision history

Table 1. Document revision history

Date	Revision	Changes
24-Oct-2007	1	Initial release

Obsolete Product(s) - Obsolete Product(s)

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