STEVAL-ISA059V1

DC-DC converter demonstration board based on the TSM108

Data Brief

Features

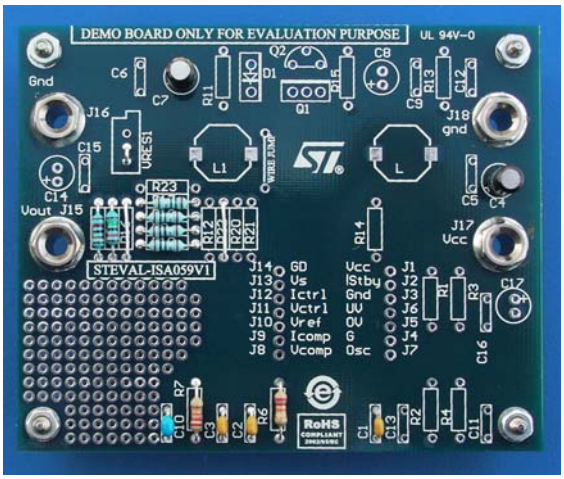
- Input voltage: V_{in} = 12 V
- Output voltage: V_{out} = 6 V
- Maximum output current: I_{out} = 800 mA

Description

The typical application implemented in this demonstration board, based on the TSM108, is a battery charger. The device is a step down controller that features constant voltage and constant current regulation and can drive either a p-channel MOSFET or a PNP bipolar transistor.

This demonstration board was designed to allow different converter configurations. Several options for power semiconductor footprints are available on the PCB in order to make it adaptable to a wide range of converter output power.

The TSM108 is especially suited for cigarette lighter accessories.



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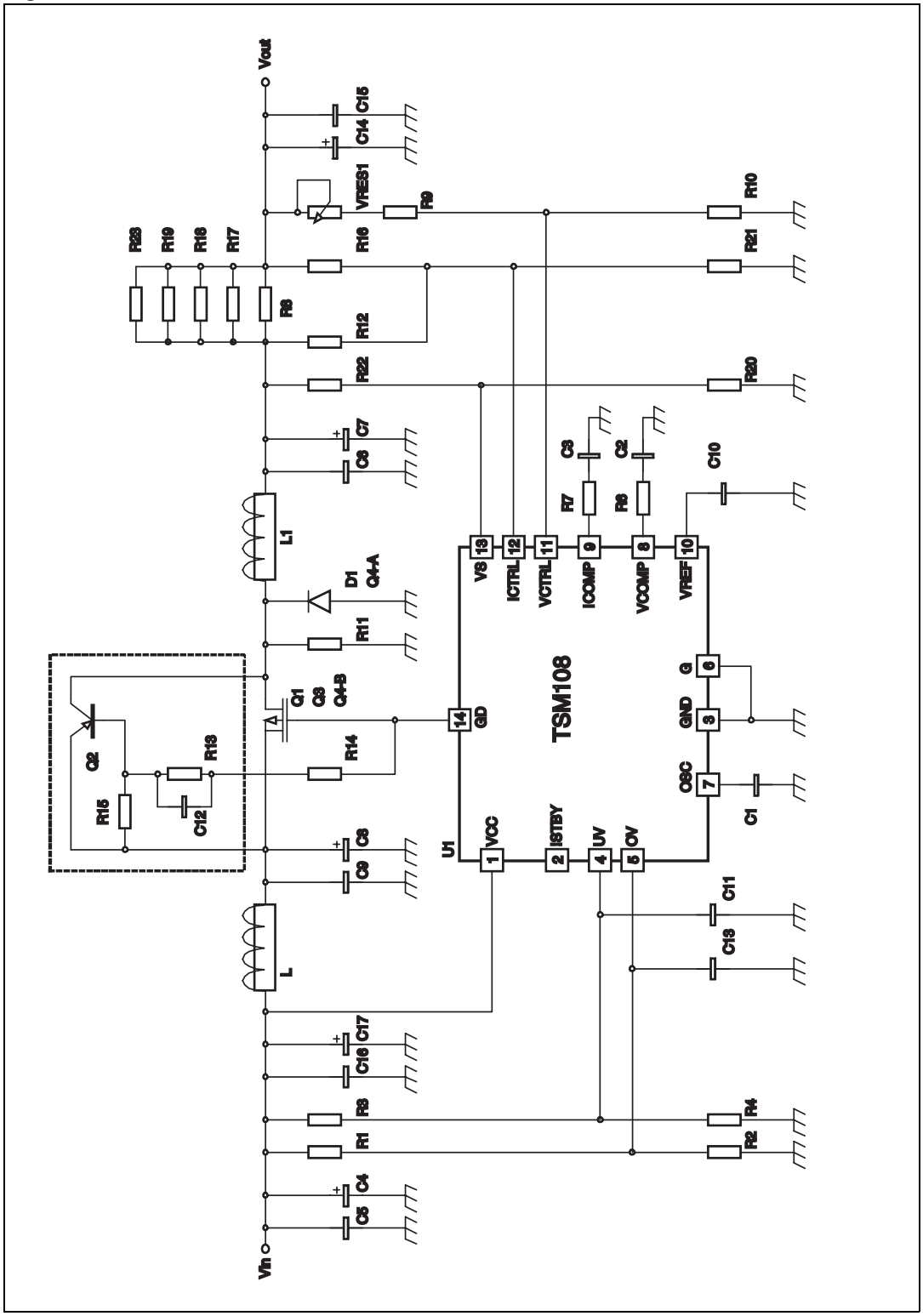
1 Circuit schematic

Figure 1. Schematic



2 Revision history

Table 1. Document revision history

Date	Revision	Changes
06-Mar-2009	1	Initial release.

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