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STEVAL-ISA196V1

5 V / 1.2 A non-isolated flyback converter using VIPerPlus – VIPer114LS

Data brief



Features

- Universal AC main input voltage range: 85V_{AC} to 265V_{AC}
- Output voltage: 5 V
- Output current: 1.2 A
- Rated output power: 6 W
- No load input power @230 V_{AC}: < 10 mW
- Active mode efficiency: > 78%
- EMI: according to EN55022-Class-B
- RoHS compliant

Description

The STEVAL-ISA196V1 evaluation board implements a flyback converter (5 V / 1.2 A) wide range mains developed for general purpose applications.

The core of the application is the VIPer11, a new off-line high voltage converter from the VIPerPlus family.

The device is a high-voltage converter that intelligently integrates an 800 V rugged power MOSFET with PWM current-mode control.

The main characteristics of the evaluation board are its single layer, small size and minimal BOM, high efficiency and low standby consumption.

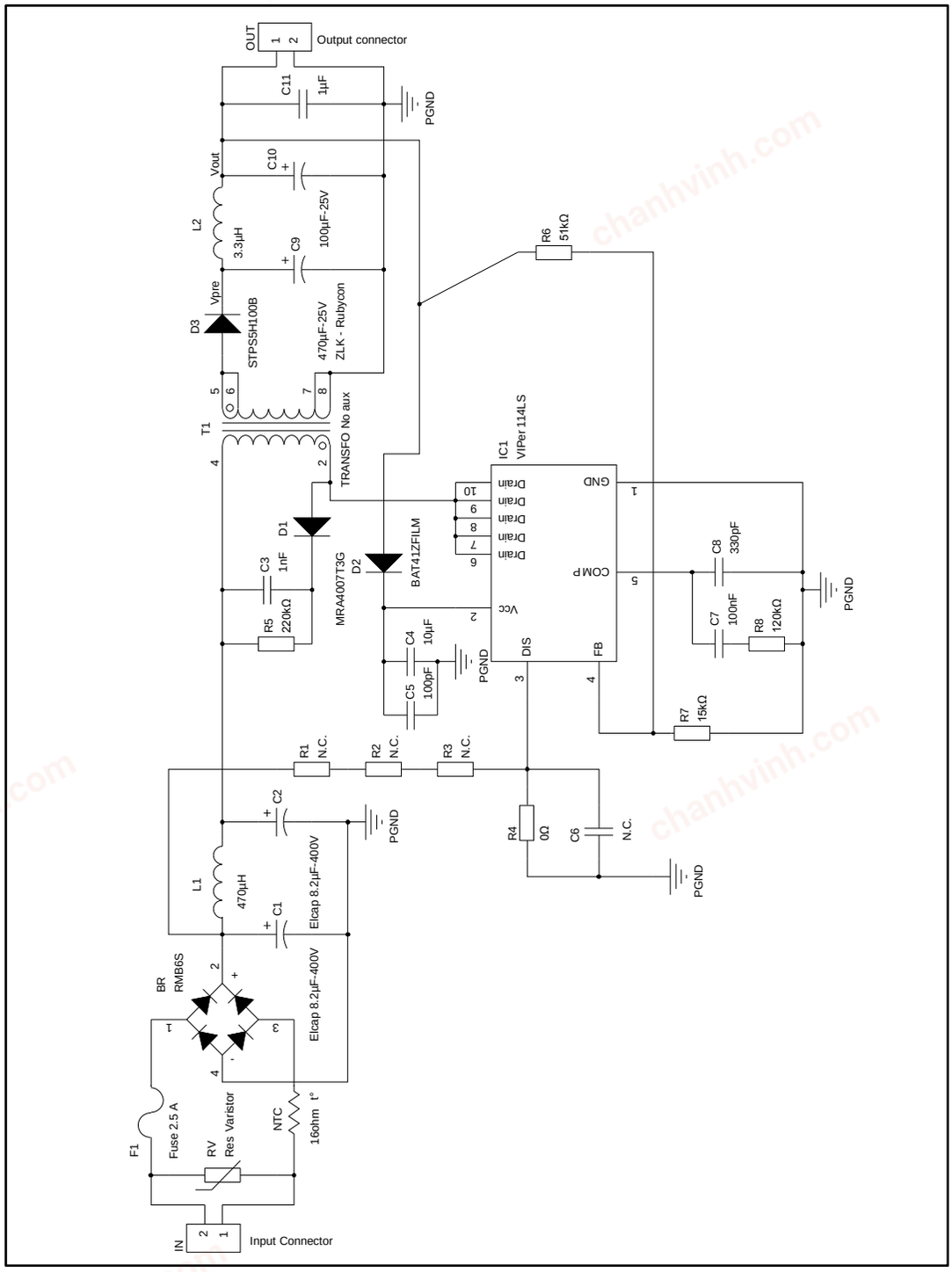
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1 Schematic diagram

Figure 1: STEVAL-ISA196V1 circuit schematic



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2 Revision history

Table 1: Document revision history

Date	Version	Changes
19-Sep-2017	1	Initial release.

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