STEVAL-ISA135V1



12 V/4 W, 115 kHz isolated flyback demonstration board based on the VIPer06HS

Data brief



Features

- AC main input voltage: V_{IN} 85 V_{AC} 265 V_{AC}
- Main frequency: f_L 50 Hz 60 Hz
- Output voltage: V_{OUT} 12 V
- Max output current: I_{OUT} 333 mA
- Precision of output regulation: $\Delta V_{OUT_LF} \pm 5$ %

- High frequency output voltage ripple: ΔV_{OUT_HF} 50 mV
- Min active mode efficiency: η_{AV} 71 %
- Max ambient operating temperature: T_{AMB} 60 ^oC
- Thermal shutdown with hysteresis
- Delayed overload protection
- Open loop failure protection (if auxiliary winding is used)
- RoHS compliant

Description

The STEVAL-ISA135V1 is a 12 V - 4 W power supply in isolated flyback topology based on the VIPer06HS, a new offline high voltage converter having, as main features: 800 V avalanche rugged power section, PWM operation at 115 kHz with frequency jittering for lower EMI, cycleby-cycle current limit with adjustable set point, on-board soft-start and safe auto-restart after a fault condition.

October 2013

DocID025243 Rev 1

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1 Schematic diagram

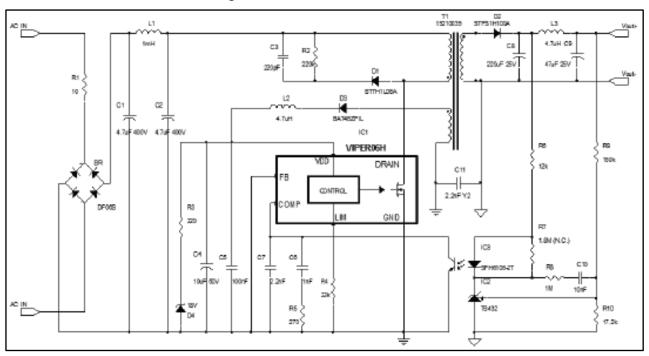


Figure 1: STEVAL-ISA135V1 circuit schematic



2 Revision history

Table 1: Document revision history

Date	Version	Change
02-Oct-2013	1	Initial release.



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