

STEVAL-ISA058V1

5 W single output SMPS demonstration board based on the VIPer17 off-line high voltage converter

Features

■ Input voltage range: 90 V_{AC} to 265 V_{AC_RMS}

■ Output voltage: 5 V

Maximum output current: 1 A

■ RoHS compliant

Description

The STEVAL-ISA058V1 demonstration board is a 5 W off-line power supply designed as an evaluation platform for the VIPer17 offline high voltage converter.

The VIPer17 features an 800 V rugged power section, PWM control, two levels of overcurrent protection, overvoltage and overload protection, hysteretic thermal protection, soft-start and safe auto-restart after fault condition removal. Burst mode operation and the very low consumption of the device help to meet standby energy saving regulations. Advance frequency jittering reduces EMI filter cost. A brown-out function protects the switch mode power supply when the rectified input voltage level is below the normal minimum level specified for the system. A high voltage startup circuit is embedded in the device.

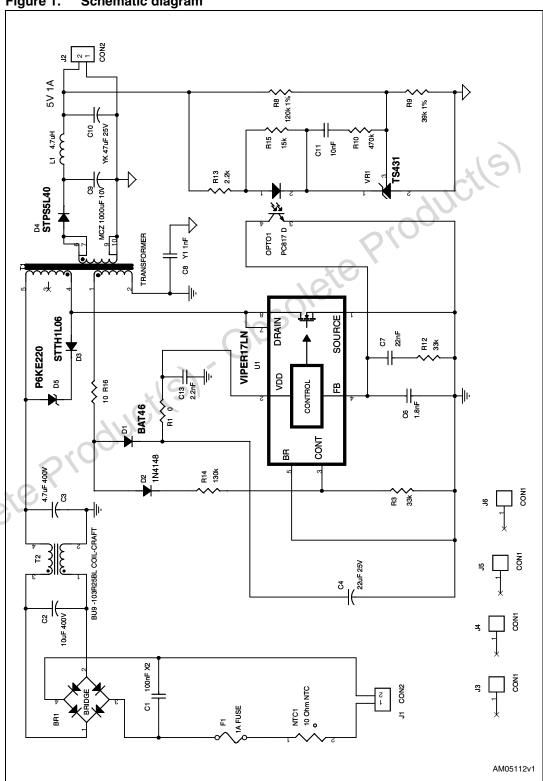


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Circuit schematic STEVAL-ISA058V1

Circuit schematic 1

Figure 1. Schematic diagram



STEVAL-ISA058V1 Revision history

2 Revision history

Table 1. Document revision history

Date	Revision	Changes
26-Aug-2009	1	Initial release.



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4/4 Doc ID 16146 Rev 1

