



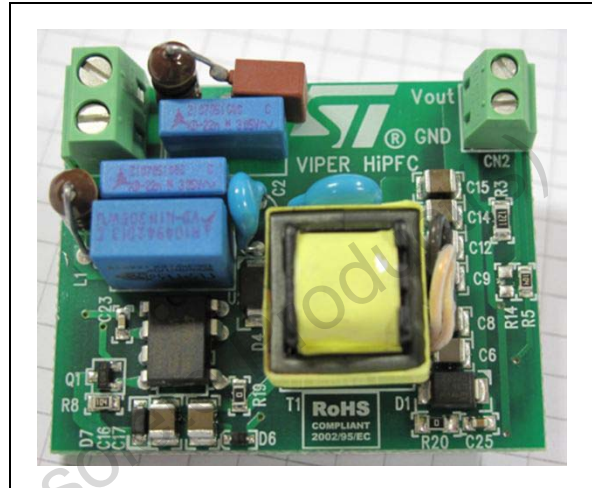
STEVAL-ISA120V1

3.5 to 7 W high power factor offline LED driver based on the VIPer27

Data brief

Features

- Input voltage: 100 to 264 V_{AC}
- Power factor: > 0.9 @ 115 V and 230 V
- Output power: 3.5 to 7 W (3 x 1 W / 3 x 2.5 W LED in series)
- Output current (average): 0.35 to 0.7 A
- Input/output isolation
- No high voltage electrolytic capacitors, and possibility of no low voltage electrolytic capacitors
- Open/short-circuit protection
- Minimal part count
- RoHS compliant



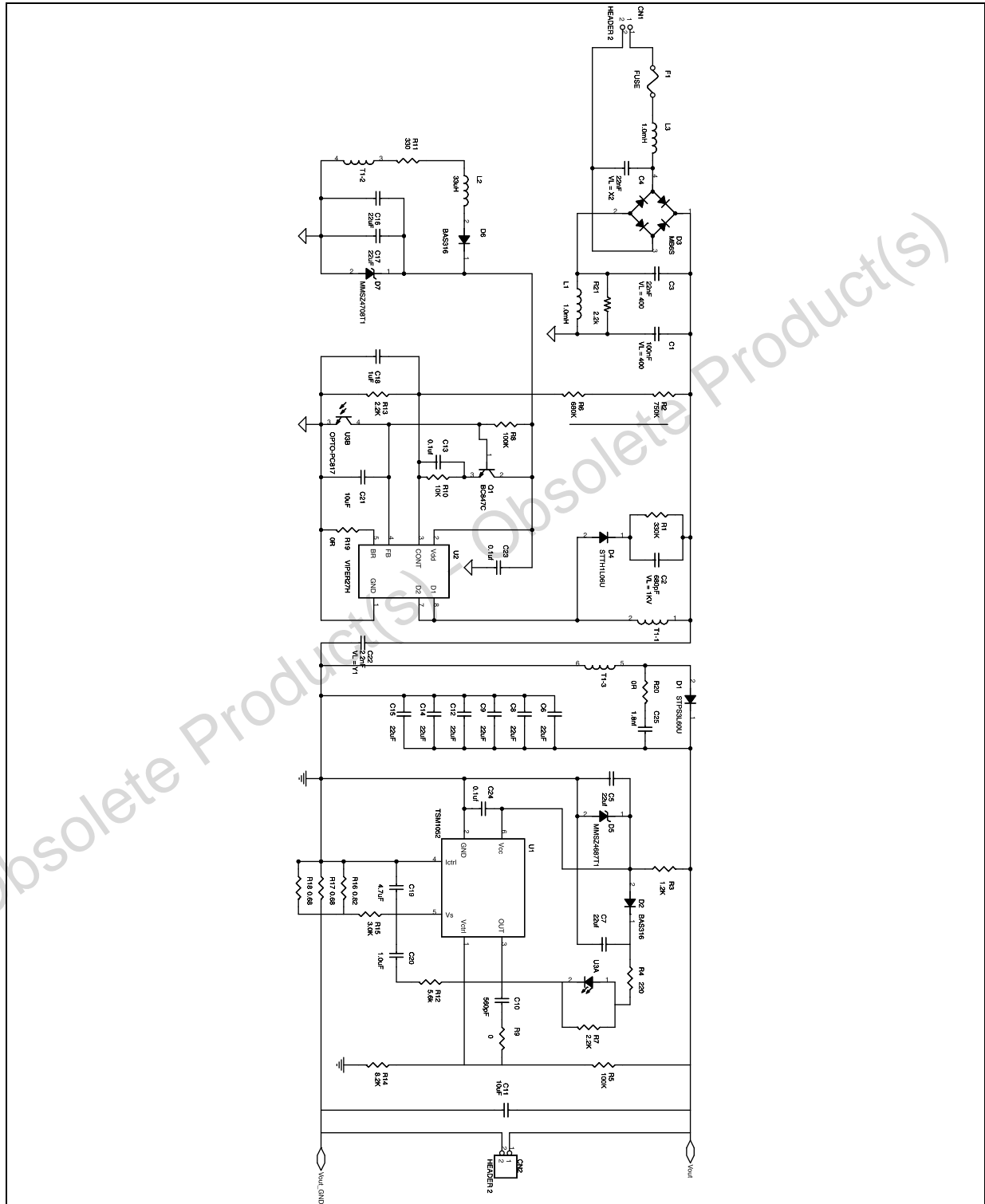
Description

The STEVAL-ISA120V1 demonstration board implements an LED power supply module characterized by a high power factor, based on devices from the VIPer family in flyback configuration and with a TSM1052 as a constant current controller.

Key benefits of the application are that there are no high voltage electrolytic capacitors, and users can evaluate the influence of output bulk electrolytic capacitors on overall performance and consider replacing them with much smaller ceramic components, possibly implementing a non-electrolytic configuration.

1 Test circuit

Figure 1. Test circuit schematic



2 Revision history

Table 1. Document revision history

Date	Revision	Changes
09-Jan-2013	1	Initial release.

Obsolete Product(s) - Obsolete Product(s)

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