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STEVAL-ILL055V1

High-efficiency isolated offline LED drive with 11 W fixed output and high PF, based on the HVLED815PF (EU input range)

Data brief



Features

Input:

Voltage: 185 – 264 VacFrequency: 45 – 55 Hz

Output:

Current: 640 mA

Voltage: 6 LED module (blue or white)

Power factor> 0.9

Efficiency

- 84%

PCB type and size:

- FR4

Double layer

Copper thickness: 35 μm
LED driver size: 17 x 55 mm
Board size: 34 x 88 mm

Isolation

Isolated 2 kV / 4 mm isolation gap

EMI

According to EN55022 Class B

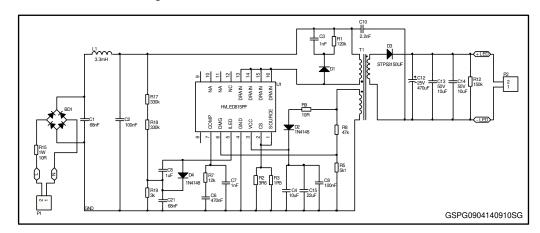
Description

The STEVAL-ILL055V1 is an isolated SMPS designed in high power factor flyback topology. It generates a 640 mA nominal output current, delivering up to 11 W of output power and provides a cost-effective and space-saving solution. This product evaluation board is based on the HVLED815PF, a monolithic converter integrating both an 800 V avalanche-rugged MOSFET and PWM controller in a single package.

Schematic diagram STEVAL-ILL055V1

1 Schematic diagram

Figure 1: STEVAL-ILL055V1 circuit schematic



STEVAL-ILL055V1 Revision history

2 Revision history

Table 1: Document revision history

Data	Revision	Changes
14-Apr-2014	1	Initial release

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