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SSL4101DB01

SSL4101DB01 150 W SSL reference design

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Demo board description

This 150W LED driver was designed to meet the demands of commercial lighting applications. It hosts small form factor, meets commercial THD, EMC and low stand-by power requirements of mains connected lighting applications.

The LED driver design is based around the SSL4101. The SSL4101 is NXP's latest Switch Mode Power Supply (SMPS) controller IC designed for LED lighting applications. It is an extension of NXP long line of SMPS controller product offering.

Features

- SSL4101 SSL Driver IC
- TEA1761 Secondary side synchronous rectifier controller
- Output: 48V @ 3.125A (when used as voltage source)
- Output: 3.3A @ 40-48Vdc (when used as current source)
- Universal mains: input 90-305 Vac
- NTC Inrush current protection
- High efficiency: > 94 %
- High power factor: > 0.90
- Low stand-by power: < 300 mW
- < 20 % Input current total harmonic distortion (THD)
- Small form factor
- Low BOM count
- Typical applications: Street lighting; parking garage and area lighting; industrial high-bay and low-bay lighting; commercial interior lighting

Descriptive summary

Demobox content

SSL4101DB01 Reference design, CD with documentation

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SSL4101 150W

Documentation for this product

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File name	Title	Type	Format	Date
AN10580	GreenChip TEA1761 synchronous rectification and feedback controller	Application note	pdf	2008-03-19
AN10912	SMPS EMC and layout guidelines	Application note	pdf	2011-02-18
TEA1761T	GreenChip synchronous rectifier controller	Data sheet	pdf	2007-04-25
SSL4101T	GreenChipIII+ SMPS control IC	Data sheet	pdf	2011-04-26
SSL4101DB01_Gerber_files	Gerber files: SSL4101DB01 150 W SSL reference design	Other type	zip	2011-10-11
UM10570	SSL4101DB02 4-channel high-efficiency universal mains constant current LED driver demo board	User manual	pdf	2012-06-05
UM10469	48 V/150 W demo board using the SSL4101	User manual	pdf	2012-05-22

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SSL4101DB01	9352 955 03598	SSL4101DB01,598	Vblume production						

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Products

Type number	Description	Status	Quick access
SSL4101T	Flyback power supply controller IC with PFC for LED lighting	Production	Download datasheet Order sample
TEA1761T	Synchronous rectification controller with integrated feedback and protection	Production	Download datasheet Order sample

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