Isolated LED Driver with PFC for A19 Lamp Application using LM3447 - 230VAC, 36VLED 12W

(ACTIVE) PMP8013

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Description

The main purpose of this reference design is to demonstrate the LM3447 is ideal for implementing high dimmable performance with single stage PFC, isolated LED lamp drivers where simplicity, low-component count and small solution size. The operating conditions and performance of the reference design are as follows: •190VAC to 264VAC, 50Hz Input Voltage •32V to 38V LED Voltage •280mA Regulated LED Current •> 81% Typical System Efficiency •High Power Factor > 0.9 •Output Short-Circuit and Open-Circuit Protection

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Fully assembled board (shown above) developed for testing and performance validation only, not available for sale.

Bill of Materials (BOM)

Find the complete list of components in this reference design.

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Parametrics

	PMP8013
Vin (Max) (V)	264
Vin (Min) (V)	198
Vout (Nom) (V)	36
Iout (Max) (A)	.28
Output Power	10.08
Isolated/Non-Isolated	Isolated
Input Type	AC
Topology	Flyback- DCM

TI Devices (1)

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Part Number	Name	Product Family	Sample & Buy	Design Kits & Evaluation Modules
LM3447	Phase Dimmable, Primary Side Power Regulated, PFC Flyback Controller for LED Lighting	LED Driver	Sample & Buy	View Design Kits & Evaluation Modules

Technical Documents

User Guides (1)

Title	Abstract	Type	Size (KB)	Date	Views
PMP8013 Test Results		PDF	445	27 Nov 2012	36

Design Files (5)

Title	Abstract	Type	Size (KB)	Date	Views
PMP8013 PCB (Bottom)		PDF	139	27 Nov 2012	27
PMP8013 PCB (Top)		PDF	103	27 Nov 2012	29
PMP8013 Gerber		ZIP	261	27 Nov 2012	25
PMP8013 BOM		PDF	55	27 Nov 2012	62
PMP8013 Schematic		PDF	27	27 Nov 2012	72

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