TPS92560 High Power 20W Boost LED Driver Reference Design

Status: ACTIVE

PMP8020

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Description

The main purpose of this reference design is to demonstrate a very good compatibility of Power source boost topology LED driver based on TPS92560. This LED driver is designed for converting a power source DC, AC & E-transformer to a regulated LED current. The operating conditions and performance of the reference design are as follows: 12VDC, or 12Vac / 50Hz 60Hz, or 12VAC E-transformer, Output Power 20W, 30-40V LED voltage , 500mA Regulated LED Current , 86% Typical System Efficiency, High Power Factor > 0.9, and output Open-Circuit Protection.

Boost LED Driver Reference Design Board

Technical Documents

User Guides (1)

Title	Abstract	Type	Size (KB)	Date	Views
PMP8020 Test Results		PDF	809	19 Jul 2013	38

More Literature (2)

Title	Abstract	Type	Size (KB)	Date	Views
PMP8020 Schematic		PDF	121	19 Jul 2013	41
PMP8020 BOM		PDF	91	19 Jul 2013	30

Related Products

Software (1)

PMP8020 Gerber
(ZIP, 57 KB) 21 views, 19 Jul 2013

TI Devices (2)

Part Number	Name	Product Family
TL431A	Adjustable Precision Shunt Regulator	Voltage Reference
TPS92560	Simple LED Driver for MR16 and AR111 Applications	Power Management

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Training & Events

Name	Type	Available During
Multi-Day PFC Design Workshop (Analog & Digital) sponsored by Biricha Digital Power Ltd.	In-Person	03 Dec 2013 - 05 Dec 2013
Multi-Day PFC Design Workshop (Analog & Digital) sponsored by Biricha Digital Power Ltd.	In-Person	03 Dec 2013 - 05 Dec 2013
In-depth PFC Design Workshop	In-Person	12 Nov 2013 - 14 Nov 2013
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WEBENCH® Power Designer - Electrical Simulation	Recorded Content	On Demand

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