

LED driver with dimming 140V...170V@0.35A

(ACTIVE) PMP5652

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Description

The PMP5652 combines together the cascode Flyback topology (fast startup) and the constant ON time modulation to achieve high power factor and constant current driving, suitable for LED lighting application. The input voltage is the high line and a 0...10V analog input is used as dimming control voltage.

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Bill of Materials (BOM)

Find the complete list of components in this reference design.

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Parametrics

	PMP5652
Vin (Max) (V)	265
Vin (Min) (V)	176
Vout (Nom) (V)	170
Iout (Max) (A)	.35
Output Power	59.5
Isolated/Non-Isolated	Isolated
Input Type	AC
Topology	PFC- Flyback

TI Devices (3)

Order samples, get tools and find more information on the TI products in this reference design.

Part Number	Name	Product Family	Sample & Buy	Design Kits & Evaluation Modules
LM158	Dual General-Purpose Operational Amplifier	Operational Amplifier (Op Amp)	Sample & Buy	View Design Kits & Evaluation Modules
LMV321	Single Low-Voltage Rail-to-Rail Output Operational Amplifier	Operational Amplifier (Op Amp)	Sample & Buy	View Design Kits & Evaluation Modules
TPS92210	Constant-On Time Driver Controller with Cascoded MOSFET for LED Lighting	LED Driver	Sample & Buy	View Design Kits & Evaluation Modules

CAD/CAE symbols

Part #	Package Pins	CAD File (.bxl)	STEP Model (.stp)
LM158	CDIP (JG) 8	Download	-
	LCCC (FK) 20	Download	-
LMV321	SOT (DBV) 5	Download	Download
	SOT (DCK) 5	Download	Download
TPS92210	SOIC (D) 8	Download	Download

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Step 1: Download and install the Ultra Librarian software [ZIP: 62MB](#)

Step 2: Download the Symbol and Footprint .bxl file.

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Technical Documents

User Guides (1)

Title	Abstract	Type	Size (KB)	Date	Views
PMP5652 Test Results		PDF	201	15 Aug 2011	25

Design Files (2)

Title	Abstract	Type	Size (KB)	Date	Views
PMP5652 BOM		PDF	31	03 Aug 2011	38
PMP5652 Schematic		PDF	74	03 Aug 2011	46

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