17V to 36Vin Isolated Flyback 53V @ 70W

(ACTIVE) PMP5651

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Description

This DC/DC converter is an isolated Flyback delivering 53V @ 1.35A from 17V to 36V input voltage. A supplementary overvoltage protection with a further optocoupler has been implemented.

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Bill of Materials (BOM)

Find the complete list of components in this reference design.

Download BOM

Parametrics

	PMP5651
Vin (Max) (V)	36
Vin (Min) (V)	17
Vout (Nom) (V)	53
Iout (Max) (A)	1.35
Output Power	71.55
Isolated/Non-Isolated	Isolated
Input Type	DC
Topology	Flyback- Non Sync

TI Devices (3)

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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
TL103W	Dual OpAmp With Internal Reference	Operational Amplifier (Op Amp)	Sample & Buy	View Design Kits & Evaluation Modules
TPS40210	Wide Input Range Current Mode Boost Controller	Controller (External Switch)	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	-
TL103W	SOIC (D) | 8	Download	Download
TPS40210	HVSSOP (DGQ) | 10	Download	Download
	VSON (DRC) | 10	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
PMP5651 Test Results		PDF	141	26 Oct 2011	19

Design Files (2)

Title	Abstract	Type	Size (KB)	Date	Views
PMP5651 BOM		PDF	29	26 Oct 2011	38
PMP5651 Schematic		PDF	51	26 Oct 2011	66

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