

Flyback, Buck for Automotive (52V @ 0.04A)

(ACTIVE) PMP1941.2

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Description

A triple-output non-isolated flyback converter provides a regulated low voltage and two high voltage rails. A buck converter with an input transient voltage-clamping circuit produces a 5V rail. The addition of a dithering circuit creates spread-spectrum operation on the switching frequency to lower EMI, making this circuit suitable for automotive use.

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Bill of Materials (BOM)

Find the complete list of components in this reference design.

Download BOM

Parametrics

	PMP1941.2
Vin (Min) (V)	8
Vin (Max) (V)	35
Vout (Nom) (V)	52
Iout (Max) (A)	.04
Output Power	2.08
Isolated/Non-Isolated	Non-Isolated
Input Type	DC
Topology	Flyback- Non Sync Flyback- CCM

TI Devices (11)

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CAD/CAE symbols

Part #	Package Pins	CAD File (.bxl)	STEP Model (.stp)
LM158	CDIP (JG) 8	Download	-
	LCCC (FK) 20	Download	-
LM2904	SOIC (D) 8	Download	Download
	VSSOP (DGK) 8	Download	Download
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Technical Documents

User Guides (1)

Title	Abstract	Type	Size (KB)	Date	Views
PMP1941 TEST RESULTS		PDF	3079	06 Jan 2011	70

Design Files (2)

Title	Abstract	Type	Size (KB)	Date	Views
PMP1941 BOM		PDF	24	06 Jan 2011	51
PMP1941 SCHEMATIC		PDF	134	06 Jan 2011	105

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