LM5017 Flybuck Quad Isolated Output Power Supply without Opto-coupler

(ACTIVE) PMP7993.4

Description & Features | Technical Documents | Support & Community

View the Important Notice for TI Designs covering authorized use, intellectual property matters and disclaimers.

Description

This Flybuck reference design uses the LM5017 buck regulator to generate four isolated outputs: ±15V@50mA and ±5V@100mA. The regulation is done on the primary side, and thus no opto-coupler is needed. The overall load/line regulation for each output is within +/-5%. The input voltage range is from 17V to 32V. It's suitable for applications requiring multiple positive and negative bias voltage rails.

Flybuck Quad Isolated Output Power Supply without Opto-coupler

TI Devices (1)

Get more information on the TI products in this reference design.

Part Number	Name	Product Family
LM5017	100V, 600mA Wide Vin Constant On-Time Synchronous Buck Regulator	Power Supply Support

Bill of Materials

Find the complete list of components in this reference design.

Download BOM

CAD/CAE Symbols

Part #	Package | Pins	CAD File (.bxl)	STEP Model (.stp)
LM5017	HSOP (DDA) | 8	Download	Download
	WSON (NGU) | 8	Download	Download

Texas Instruments and Accelerated Designs Inc. have collaborated together to provide TI customers with schematic symbols and PCB layout footprints for TI products.

Step 1: Download and install the Ultra Librarian software ZIP: 62MB

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

- read more -

Technical Documents

User Guides (1)

Title	Abstract	Type	Size (KB)	Date	Views
PMP7993.1 Test Results		PDF	884	12 Sep 2013	37

More Literature (2)

Title	Abstract	Type	Size (KB)	Date	Views
PMP7993.1 BOM		PDF	24	12 Sep 2013	55
PMP7993.1 Schematic		PDF	121	12 Sep 2013	77

Related Tools & Software

Software (1)

PMP7993.1 Gerber
(ZIP, 179 KB) 29 views, 12 Sep 2013

Support & Community

TI E2E™ Community

TI E2E™ Community

As a member of my.TI you can join the TI E2E™ Community where you can ask questions, share ideas and collaborate with fellow engineers and TI experts

Contents are provided "AS IS" by the respective TI and Community contributors and do not constitute TI specifications. See Terms of Use.

Engage in the Community

- Amplifiers
- Broadband RF/IF & Digital Radio
- Clocks & Timers
- Data Converters
- DLP® & MEMS
- Interface
- Logic
- Power Management
- Wireless Connectivity

Wikis

Visit the TI Wiki

Videos

Power Tip 58: Power supply grounding; which camp are you in?

In this power tip video senior applications engineer, Robert Kollman, discusses different methods for grounding power supply.

Posted: 27-Oct-2013
Duration: 3:30
Views: 94
Tags: power tip, power management, power reference designs, powerlab, power management solutions

Search over 1,000 Power Management Reference Designs

Related Videos

Power Tip 58: Power supply grounding; which camp are you in?

Power Tip 56: Estimate PWB interconnect inductance

Other Support

- TI E2E Community
- Contact Technical Support

Your History

Products You Recently Viewed

- PMP7994
- PMP7996
- PMP8570
- PMP8580
- PMP8581

TI is a global semiconductor design and manufacturing company. Innovate with 100,000+ analog ICs and embedded processors, along with software, tools and the industry's largest sales/support staff.

© Copyright 1995-2013 Texas Instruments Incorporated. All rights reserved.
Trademarks | Privacy Policy | Terms of Use