Laser and Ionization Unit

(ACTIVE) PMP2534

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Description

The PMP2534 is composed of two times active clamp forward, delivering 0...35V@10Amax, two current limit functions to protect the 3.3V and 5V outputs and some interface for a microcntroller. The active clamps are constant voltage and/or constant current controllable by means of two PWM inputs. This power supply is suitable as general bench power generator from a desktop standard PSU as source.

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Bill of Materials (BOM)

Find the complete list of components in this reference design.

Download BOM

Parametrics

	PMP2534
Vin (Max) (V)	12.6
Vin (Min) (V)	11.4
Vout (Nom) (V)	35
Iout (Max) (A)	10
Output Power	350
Isolated/Non-Isolated	Isolated
Input Type	DC
Topology	Forward- Active Clamp

TI Devices (3)

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Part Number	Name	Product Family	Sample & Buy	Design Kits & Evaluation Modules
TL1431	Precision Adjustable (Programmable) Shunt Reference	Voltage Reference	Sample & Buy	Not Available
UCC2808-2	Low Power Current Mode Push-Pull PWM	AC/DC and Isolated DC/DC Power Supply	Sample & Buy	Not Available
UCC2897	Current Mode Active Clamp PWM Controller	AC/DC and Isolated DC/DC Power Supply	Sample & Buy	Not Available

CAD/CAE symbols

Part #	Package | Pins	CAD File (.bxl)	STEP Model (.stp)
TL1431	TO-92 (LP) | 3	Download	Download
	SOIC (D) | 8	Download	Download
	TSSOP (PW) | 8	Download	-
UCC2808-2	SOIC (D) | 8	Download	Download
	PDIP (P) | 8	Download	Download

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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
PMP2534 Test Results		PDF	401	14 Oct 2011	33

Design Files (2)

Title	Abstract	Type	Size (KB)	Date	Views
PMP2534 BOM		PDF	50	14 Oct 2011	37
PMP2534 Schematic		PDF	378	14 Oct 2011	48

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