

PowerLab™ Connection

Your monthly update on Power Reference Designs



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PMP7797: 60W Wide-input SEPIC Converter for Automotive

The featured reference design for January was created by the SVA Power Design Services team. It is the PMP7797; a 60W wide-input SEPIC converter designed for automotive applications. This design uses the LM25037Q push-pull controller as an interleaved boost, which incorporates two gate drivers for controlling two sets of MOSFET switches. The input is 12V nominal with a working range of 6V at cold crank to 42V at load dump. An auxiliary soft-start circuit is incorporated into the design, as well as input and output LC filters.

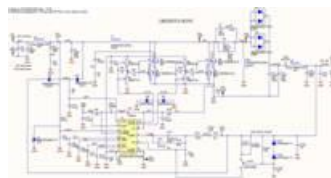
For more SVA power reference designs check out the New Designs section below.

Featured Video



[Power Tip 39: You get more than better efficiency going synchronous](#)

Featured Reference Design



[PMP7797: 60W Wide-input SEPIC Converter for Automotive](#)



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NEW SVA POWER REFERENCE DESIGNS

PMP7752: 230V AC input to 23V,0.42A Flyback LED Driver

PMP7753: 120V AC input, 1.5A isolated offline LED driver

PMP7758: Non-synch buck controller, 6 to 20V input, 3.3V @ 1A output

PMP7760: 30V-800V input to 21V @ 1.5A output, Flyback Converter

PMP7767: 15V – 50V input to 12V @ 5A,Non Sync Buck

PMP7768: 9V – 50V input to 12V @ 3A, Sepic Converter

PMP7769: 700V-860V input to 16.5V @ 0.5A

PMP7771: Non sync buck hysteretic controller for 9-18V input and 8V,3A output

PMP7772: Non sync buck controller with 20 to 27V input and 4.5 to 17V @ 1.4A output

PMP7774: Non sync buck hysteretic converter with 4.5 to 25V input and 3.3V @ 100mA output

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MOST POPULAR DESIGNS

PMP2000: Isolated Flyback (48V @ 500mA)

PMP5141: 85VAC-265VAC Input 24V/240W Output 90% Efficient PFC + LLC

PMP5417: Synchronous Boost 5V @ 4A for USB Battery Chargers

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FEATURED DESIGNS FOR LED TV

*This month features the top 3 designs for **LED TV Backlight***

PMP5299: Boost (55V @ 0.48A) for LCD TV LED Backlight

PMP6251: Slim 150W LED TV

PMP6252: UCC25710 LIPS Solution for LED TV Backlight

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TOPOLOGY ROUNDUP

*This month features the top 3 **Synchronous Buck** designs.*

PMP2645: 12V/6A Synchronous Buck

PMP4709: Non-isolated synchronous buck with VID interface

PMP5547: Synchronous buck converter 6.3V @ 1.5A, 3.3V @ 0.5A

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MORE INFORMATION

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