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MP3427

17A, 600kHz, 8V Wide Input Range Synchronous Boost Converter in a small 3x4mm QFN Package

DESCRIPTION

The MP3427 is a 600kHz fixed-frequency, high- efficiency, • 3V-to-8V Wide Input Range wide input range, current-mode boost converter with optional • Integrated 10mΩ Low-Side Power FET internal or external current-sensing configuration for high- • SDR Driver for Synchronous Solution integration and high-power applications. With a current limit • >17A Switch-Current Limit above 17A, the MP3427 supports up to 30W load power from • Optional Internal/External Current-Sensing Configuration Li-ion battery input. The MP3427 features a 10mΩ power • External Soft-Start and Compensation for Higher Flexibility switch and a synchronous gate driver for high efficiency. An • Programmable UVLO and Hysteresis external compensation pin gives the user flexibility in setting · < 1µA Shutdown Current loop dynamics and obtaining optimal transient performance at • Thermal Shutdown at 150oC all conditions.

The MP3427 includes under-voltage lockout (UVLO), switching-current limiting and thermal shutdown (TSD) to prevent damage in the event of an output overload.

The MP3427 is available in a low-profile 22-pin 3mmx4mm QFN package.

FEATURES

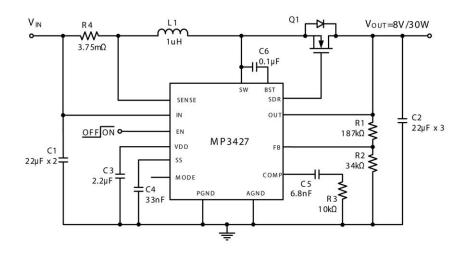
- · Available in a 3x4mm QFN-22 Package

APPLICATIONS

- · Tablets
- Power Banks
- · Fuel Cells
- POS Systems
- · Electronic Cigarettes

All MPS parts are lead-free and adhere to the RoHS directive. For MPS green status, please visit MPS website under Products, Quality Assurance page. "MPS" and "The Future of Analog IC Technology" are registered trademarks of Monolithic Power Systems, Inc

TYPICAL APPLICATION



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