



MP6907

Fast Turn-off Flyback Synchronous Rectifier that Supports CCM, DCM and QR **Operation Modes**

DESCRIPTION

The MP6907 is a low-drop diode emulator controller IC that, • Works with 12V Standard and 5V Logic Level MOSFETS when combined with an external MOSFET, can replace . Compatible with Energy Star 1W Standby Requirements Schottky diodes in high-efficiency flyback converters. The • Fast Turn-Off Total Delay of 25ns MP6907 regulates the forward drop of an external switch to • 4.2V~35V Wide VDD Operating Range about 70mV, which switches off once the voltage becomes • ~150µA Quiescent Current in Light-Load Mode(1) negative.

The MP6907 provides a SYNC interface to receive an . SYNC Interface for CCM Operation external signal to shut down the gate driver for reliable • Supports High-Side and Low-Side Rectification continuous conduction mode (CCM) operation. A • Power Savings of up to 1.5W in a Typical Notebook Adapter programmable light-load sleep mode can reduce the IC's · Available in SOIC8 and TSOT23-6 Packages quiescent current to ~150uA.

The MP6907 is available in compact SOIC8 and TSOT23-6 packages.

FEATURES

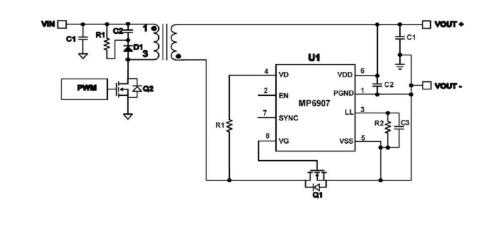
- · Supports CCM, DCM, and Quasi-Resonant Operation

APPLICATIONS

- Industrial Power Systems
- · Distributed Power Systems
- · Battery Powered Systems
- · Flyback Converters

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

TYPICAL APPLICATION



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