



MP6924

Fast Turn-off, CCM/DCM Compatible Dual LLC Synchronous Rectifier with low Sleep Mode Current

DESCRIPTION

The MP6924 is a dual, fast turn-off, intelligent rectifier for • Works with 12V Standard and 5V Logic Level MOSFETs synchronous rectification in LLC resonant converters.

The IC drives two N-channel MOSFETs, regulates their • Fast Turn-Off Total Delay of 35ns forward voltage drop to about 45mV, and turns the MOSFETs $\, \cdot \,$ Wide 4.2V \sim 35V VDD Operating Range off before the switching current goes negative.

The MP6924 has a light-load function to latch off the gate • Supports CCM, CrCM, and DCM Operation driver under light-load conditions, limiting the current to • Supports High-Side and Low-Side Rectification

The MP6924's fast turn-off enables both continuous • Available in a SOIC-8 Package conduction mode (CCM) and discontinuous conduction mode APPLICATIONS (DCM).

The MP6924 requires a minimal number of readily available, standard, external components and is available in a SOIC-8 package.

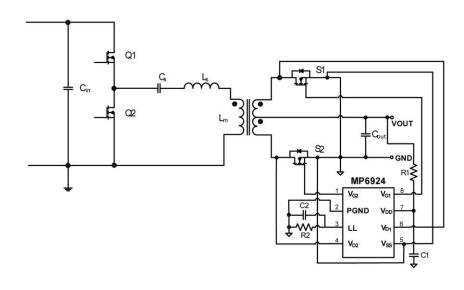
FEATURES

- Compatible with Energy Star, 0.5W Standby Requirements
- 175µA Low Quiescent Current in Light-Load Mode
- Power Savings of Up to 1.5W in a Typical Notebook Adapter

- AC/DC Adapters
- PC Power Supplies
- · LCD and LED TVs
- · Isolated DC/DC Power 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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