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MP1475S

High-Efficiency, 3A, 16V, 500kHz Synchronous, Step-Down Converter

DESCRIPTION

The MP1475S is a high-frequency, synchronous, rectified, • Wide 4.5V to 16V Operating-Input Range step-down, switch-mode converter with built-in power \bullet 120m Ω /50m Ω Low RDS(ON) Internal Power MOSFETs MOSFETs. It offers a compact solution to achieve a 3A • High-Efficiency Synchronous-Mode Operation continuous output current with excellent load and line • Fixed 500kHz Switching Frequency regulation over a wide input-supply range. The MP1475S has • Synchronizes from a 300kHz to 2MHz External Clock synchronous-mode operation for higher efficiency over the • Power-Save Mode at Light Load output current-load range.

Current-mode operation provides fast, transient response and · Power Good Indicator eases loop stabilization.

Full protection features include over-current protection (OCP) • Thermal Shutdown and thermal shut down (TSD).

The MP1475S requires a minimal number of readily available, • Available in a 8-pin TSOT-23 Package standard, external components and is available in a spacesaving 8-pin TSOT23 package.

FEATURES

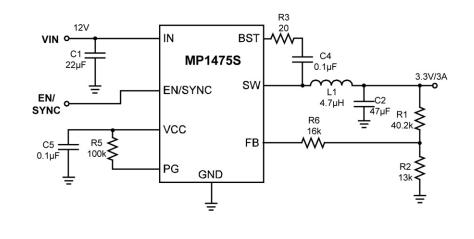
- · Internal Soft-Start
- · Over-Current Protection and Hiccup
- Output Adjustable from 0.8V

APPLICATIONS

- · Notebook Systems and I/O Power
- · Digital Set-Top Boxes
- · Flat-Panel Television and Monitors
- · Distributed Power Systems

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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