

MP1474S

High-Efficiency, 2A, 16V, 500kHz Synchronous, Step-Down Converter

DESCRIPTION

The MP1474S is a high-frequency, synchronous, rectified, • • Wide 4.5V to 16V Operating-Input Range step-down, switch-mode converter with built-in power • $150 \text{m}\Omega/70 \text{m}\Omega$ Low RDS(ON) Internal Power MOSFETs MOSFETs. It offers a compact solution to achieve a 2A • 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 MP1474S 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 shutdown (TSD).

The MP1474S 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

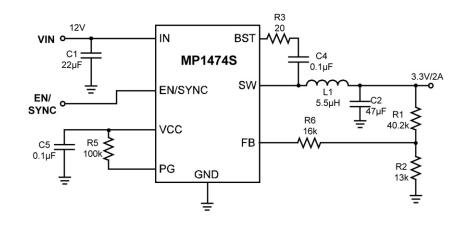
- · Internal Soft-Start
- · Over-Current Protection and Hiccup
- Output Adjustable from 0.8V

APPLICATIONS

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

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TYPICAL APPLICATION



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