

General Description

The HT8814 is a high frequency synchronous rectified step-down switch mode converter with built in internal power MOSFETs. It offers a very compact solution to achieve 0.6A continuous output current over a wide input supply range with excellent load and line regulation.

Full protection features include over current protection, over temperature protection and softstart function prevents inrush current start function prevents inrush current at turn-on.

The HT8814 requires a minimum number of readily available standard external components and is available in a space saving 6-pin SOT23 package.

Features

- Wide Input Range: 4.5V ~ 60V
- 62V Input Over Voltage Protection
- 1.2MHz Switching Frequency
- 0.6A Output Current
- Up to 92% Efficiency
- Output Short Protection
- Internal Soft Start
- Pulse-skip Mode to Improve Light-load Efficiency
- Input Over-voltage Protection
- Thermal Shutdown
- Input Under-Voltage Lockout
- Output Over-Voltage Protection
- Internal Loop Compensation
- Stable with Low-ESR Ceramic Output Capacitors
- Compact Package: SOT23-6 Pins

Applications

- Power Meters
- Distributed Power Systems
- Battery Chargers
- Pre-Regulator for Linear Regulators
- WLED Drivers

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