

General Description

The HT8310E is a fixed frequency synchronous rectified step-down switch mode converter with built in internal power MOSFETs. It offers a very compact solution to achieve 1A continuous output current over a wide input supply range with excellent load and line regulation. The HT8310E has synchronous mode operation for higher efficiency over current load range. Current mode operation provides fast transient response and eases loop stabilization.

The HT8310E has configurable line drop compensation. Full protection features include current limit, short circuit and thermal protection. The soft-start function prevents inrush current at turn-on.

The HT8310E requires a minimum number of readily available standard external components and is available in a space saving SOT23-6 package.

Features

- Wide Input Range: 4.5V ~ 36V
- 33V Input Over Voltage Protection
- 150kHz Switching Frequency
- 1A Output Current
- Up to 97% Efficiency
- Output Short Protection
- Internal Soft Start
- Configurable Line Drop Compensation With Resistor
- Pulse-skip Mode to Improve Light-load Efficiency
- Stable with Low ESR Ceramic Output Capacitors
- Input Under-Voltage Lockout
- Output Over-Voltage Protection
- Internal Loop Compensation
- Over-Temperature Protection
- Compact Package: SOT23-6 Pins

Applications

- Chargers
- Digital Set Top Boxes
- Portable Products
- Notebook Systems and I/O Power

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