



General Description

The AP8407 is a monolithic synchronous buck regulator. The device integrates two 130mΩ MOSFETs, and provides 1.6A of continuous load current over a wide input voltage of 4.75V to 32V.

Current mode control provides fast transient response and cycle-by-cycle current limit.

An adjustable soft-start prevents inrush current at turn-on, and in shutdown mode the supply current drops to 1μA.

This device, available in an SOP8 package, provides a very compact solution with minimal external components.

Features

- 1.6A Output Current
- Wide 4.75V to 32V Operating Input Range
- Integrated 130mΩ Power MOSFET Switches
- Output Adjustable from 0.923V to 30V
- Up to 93% Efficiency
- Programmable Soft-Start
- Stable with Low ESR Ceramic Output Capacitors
- Fixed 340KHz Frequency
- Cycle-by-Cycle Over Current Protection
- Input Under Voltage Lockout

Applications

- Distributed Power Systems
- Networking Systems
- FPGA, DSP, ASIC Power Supplies
- Green Electronics/ Appliances
- Notebook Computers