

General Description

The AP2952A is a monolithic synchronous buck regulator. The device integrates 130mΩ MOSFETs that provide 2A continuous load current over a wide operating input voltage of 4.75V to 18V. Current mode control provides fast transient response and cycle-by-cycle current limit. An adjustable soft-start prevents inrush current at turn-on. In shutdown mode, the supply current drops below 1 μA. This device, available in an 8-pin SOP package, provides a very compact system solution with minimal reliance on external components.

Features

- 2A Output Current
- Wide 4.75V to 18V Operating Input Range
- Integrated 130mΩ Power MOSFET Switches
- Output Adjustable from 0.925V to 15V
- Up to 95% Efficiency
- Programmable Soft-Start
- Fixed 450KHz Frequency
- Cycle-by-Cycle Over Current Protection
- Input Under Voltage Lockout
- Thermally Enhanced 8-Pin SOP Package

Applications

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

Package

- SOP8-PP

Typical Application Circuit

