

DESCRIPTION

The AS5460S is a monolithic buck switching regulator based on I2 architecture for fast transient response. Operating with an input range of 3.3V~18V, AS5460S delivers 3A of continuous output current with two integrated N-Channel MOSFETs. The internal synchronous power switches provide high efficiency without the use of an external Schottky diode. At light loads, the regulator operates in low frequency to maintain high efficiency and low output ripples. AS5460S guarantees robustness with output short protection, thermal protection, current run-away protection, input under voltage lockout, and FB short protection.

AS5460S is available in TSOT23-6 and TSOT23-8 packages, which provide a compact solution with minimal external components.

FEATURES

- 3.3V to 18V operating input range
- 3A output current
- Up to 95% efficiency
- High efficiency (>85%) at light load
- 800kHz switching frequency
- Internal soft-start
- Input under voltage lockout
- Feedback short protection
- Current run-away protection
- Output short protection
- Thermal protection
- Available in TSOT23-6 and TSOT23-8 packages

APPLICATIONS

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

TYPICAL APPLICATION

3.3V/3A Step-down Regulator

