

Preliminary Specifications Subject to Change without Notice

DESCRIPTION

The JW[®]5092A and JW[®]5092AF are monolithic buck switching regulators based on I2 architecture for fast transient response. Operating with an input range of 4.5V~18V, JW5092A and JW5092AF deliver 2A 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, JW5092A operates in low frequency to maintain high efficiency. JW5092A and JW5092AF guarantee robustness with output short protection, thermal protection, current run-away protection and input under voltage lockout.

JW5092A and JW5092AF are available in a SOT563 package, which provide a compact solution with minimal external components.

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FEATURES

- 4.5V to 18V operating input range
- 2A output current
- Up to 95% efficiency
- PFM mode (JW5092A) at light load
- FCC mode (JW5092AF) at light load
- 600kHz switching frequency
- 1% feedback voltage accuracy
- Internal soft-start
- Input under voltage lockout
- Current run-away protection
- Output short protection
- Thermal protection
- Available in SOT563 package

APPLICATIONS

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

TYPICAL APPLICATION

