

DESCRIPTION

The JW[®]5393H and JW[®]5393HF are monolithic buck switching regulators based on I² architecture for fast transient response. Operating with an input range of 4.5V~18V, JW5393H and JW5393HF deliver 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, JW5393H operates in low frequency to maintain high efficiency.

JW5393H and JW5393HF guarantee robustness with output short protection, thermal protection, current run-away protection and input under voltage lockout.

JW5393H and JW5393HF are available in SOT563 package, which provide a compact solution with minimal external components.

Company's Logo is Protected, "JW" and "JOULWATT" are Registered Trademarks of JoulWatttechnology Inc.

FEATURES

- 4.5V to 18V operating input range
- 3A output current
- Up to 96% efficiency
- PFM mode (JW5393H) at light load
- FCC mode (JW5393HF) at light load
- 1.2MHz switching frequency
- 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

