

Preliminary Specifications Subject to Change without Notice

DESCRIPTION

The JW[®]5058S is a monolithic buck switching regulators based on I2 architecture for fast transient response. Operating with an input range of 4.5V~18V, JW5058S 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, JW5058S operates in low frequency to maintain high efficiency.

JW5058S guarantees robustness with output short protection, thermal protection, current run-away protection and input under voltage lockout.

JW5058S is available in SOT23-6 package, which provide a compact solution with minimal external components.

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FEATURES

- 4.5V to 18V operating input range
- 3A output current
- Up to 95% efficiency
- 1MHz switching frequency
- Internal soft-start
- Input under voltage lockout
- Current run-away protection
- Output short protection
- Thermal protection
- Available in SOT23-6 package

APPLICATIONS

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

TYPICAL APPLICATION

