

JW5060

24V/3A

Sync. Step-Down Converter

Parameters Subject to Change Without Notice

DESCRIPTION

The JW[®]5060 is a monolithic buck switching regulator based on I² architecture for fast transient response. Operating with an input range of 4V~24V, JW5060 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.

JW5060 guarantees robustness with output short protection, thermal protection, current run-away protection, input under voltage lockout.

JW5060 is available in TSOT23-6 package, which provide a compact solution with minimal external components.

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FEATURES

- 4V to 24V 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
- Current run-away protection
- Output short protection
- Thermal protection
- Available in TSOT23-6 package

APPLICATIONS

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

TYPICAL APPLICATION

3.3V/3A Step-down Regulator

