

Parameters Subject to Change Without Notice

DESCRIPTION

The JW[®]5065 is a monolithic buck switching regulator based on I2 architecture for fast transient response. Operating with an input range of 4V~24V, JW5065 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.

JW5065 guarantees robustness with output short protection, thermal protection, current run-away protection, input under voltage lockout.

JW5065 is available in TSOT23-8 packages, 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 at light load
- 450kHz switching frequency
- Internal soft-start
- Input under voltage lockout
- Current run-away protection
- Output short protection
- Thermal protection
- Available in 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

