

Parameters Subject to Change Without Notice

DESCRIPTION

The JW[®]5062T and JW[®]5062TF are monolithic buck switching regulator based on I²[™] architecture for fast transient response. Operating with an input range of 4V~18V, JW5062T and JW5062TF deliver 4A 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, JW5062T operates in low frequency to maintain high efficiency and low output ripples, while JW5062TF operates in continuous current mode for frequency sensitive application.

JW5062T and JW5062TF guarantee robustness with output short protection, thermal protection, current run-away protection, input under voltage lockout, and FB short protection.

JW5062T is available in TSOT23-6 and TSOT23-8 package, and JW5062TF is available in TSOT23-6 package, which both provide a compact solution with minimal external components.

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FEATURES

- 4V to 18V operating input range
- 4A output current
- Up to 95% efficiency
- 600kHz switching frequency
- FCCM at light load (JW5062TF)
- PFM at light load (JW5062T)
- Internal soft-start
- Input under voltage lockout
- Feedback short protection
- Current run-away protection
- Output short protection
- Thermal protection
- Available in TSOT23-6 and TSOT23-8 package

APPLICATIONS

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

TYPICAL APPLICATION

