

Parameters Subject to Change Without Notice

DESCRIPTION

The JW[®]5060T is a monolithic buck switching regulator based on I² architecture for fast transient response. Operating with an input range of 4V~24V, JW5060T 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. When PFM mode is selected, the regulator operates in low frequency at light load to maintain high efficiency and low output ripples. (PFM mode is the default operation mode in TSOT23-6 package and can be selected by MODE pin in TSOT23-8 package.) JW5060T guarantees robustness with output short protection, thermal protection, current run-away protection, input under voltage lockout. JW5060T is available in TSOT23-6 and 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 (>85%) at light load (In PFM mode)
- 800kHz switching frequency
- Selectable PFM and FCCM mode (Only available in TSOT23-8 package)
- Internal soft-start
- Input under voltage lockout
- Output short protection
- Thermal protection
- Available in TSOT23-6 and TSOT23-8 packages

APPLICATIONS

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

TYPICAL APPLICATION

