JW5027

24V/2A

Sync. Step-Down Converter

Parameters Subject to Change Without Notice

DESCRIPTION

The JW®5027 is a current mode monolithic buck voltage converter. Operating with an input range of 3.8V-24V, the JW5027 delivers 2A of continuous output current with two integrated N-Channel MOSFETs. At light loads, regulators operate in low frequency to maintain high efficiency and low output ripple.

The JW5027 guarantees robustness with short circuit protection, thermal protection, current run-away protection, and input under voltage lockout.

The JW5027 is available in a 6-pin SOT23 package, which provides a compact solution with minimal external components.

FEATURES

- 3.8V to 24V operating input range
  2A output current
- Up to 95% efficiency
- High efficiency (>80%) at light load
- Fixed 1.4MHz Switching frequency
- Input under voltage lockout
- Start-up current run-away protection
- Over current protection and Hiccup
- 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

Step Down Regulator