

JW5213

3A, 6V, 1MHz, 50uA I_Q

Synchronous Step-Down Converter

Parameters Subject to Change Without Notice

DESCRIPTION

The JW[®]5213 is a current mode monolithic buck switching regulator. Operating with an input range of 2.5V-6V, the JW5213 delivers 3A of continuous output current with integrated P-Channel and N-Channel MOSFETs. The internal synchronous power switches provide high efficiency. At light loads, the regulator operate in low frequency to maintain high efficiency and low output ripples. Current mode control provides tight load transient response and cycle-by-cycle current limit.

The JW5213 guarantees robustness with latch off output short-circuit protection, latch off over-voltage protection, start-up current run-away protection, input under voltage lockout protection, hot-plug in protection, and thermal protection.

The JW5213 provides output power good indication.

The JW5213 is available in 8-pin DFN2X2-8 package, which provides a compact solution with minimal external components.

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FEATURES

- 2.5V to 6V operating input range
- Up to 3A output current
- Up to 95% peak efficiency
- Internal Soft-Start
- 1MHz switching frequency
- Input under voltage lockout
- Short circuit protection
- Over voltage protection
- Thermal protection
- Hot-plug in protection
- Output POK indication
- RoHS Compliant and Halogen Free
- Available in DFN2X2-8 package

APPLICATIONS

- 5V or 3.3V Point of Load Conversion
- Set Top Boxes
- Telecom/Networking Systems
- Storage Equipment
- GPU/DDR Power Supply

TYPICAL APPLICATION

