

*Preliminary Specifications Subject to Change without Notice*

## DESCRIPTION

The JW<sup>®</sup>5217 is a monolithic buck switching regulator based on COT architecture for fast transient response. Operating with an input range of 2.5V~6V, JW5217 delivers 2A of continuous output current with integrated P-Channel and 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.

JW5217 guarantees robustness with output short protection, thermal protection, current run-away protection, and input under voltage lockout.

JW5217 is available in 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 2A output current
- 0.5V to  $V_{IN}$  adjustable output voltage
- PFM mode for high efficiency at light Load
- 2MHz switching frequency
- 100% duty cycle for lowest dropout
- Power good indicator
- Output discharge
- Input under voltage lockout
- Output short circuit protection
- Thermal protection
- Available in DFN2X2-8 package

## APPLICATIONS

- Battery-powered Application
- Processor Supplies
- SSD and HD Drives
- Cell Phone
- Notebook
- T-box

## TYPICAL APPLICATION

2A Step-down Regulator

