

*Parameters Subject to Change Without Notice*

## DESCRIPTION

The JW<sup>®</sup>5224 is a current mode monolithic buck switching regulator. Operating with an input range of 2.5V-5.5V, the JW5224 delivers 1.5A continuous output current with integrated P-Channel and N-Channel MOSFETs by each channel. The internal synchronous power switches provide high efficiency. At light loads, the regulator operates in continual conduction mode to maintain low output voltage ripple. Current mode control provides tight load transient response and cycle-by-cycle current limit.

The JW5224 guarantees robustness with hiccup output short-circuit protection, start-up current run-away protection, input under voltage lockout protection, hot-plug in protection, and thermal protection.

The JW5224 is available in 8-pin DFN2X3-8 package, which provides a compact solution with minimal external components.

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## FEATURES

- 2.5V to 5.5V operating input range
- Up to 1.5A output current by each channel
- Up to 95% peak efficiency
- Internal Soft-Start
- 1.5MHz switching frequency
- Input under voltage lockout
- Short circuit protection
- Thermal protection
- Hot-plug in protection
- Available in DFN2X3-8 package

## APPLICATIONS

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

## TYPICAL APPLICATION

