

*Parameters Subject to Change Without Notice*

### DESCRIPTION

The JW<sup>®</sup>5252 is a current mode monolithic buck switching regulator. Operating with an input range of 2.5V-6V, the JW5252 delivers 2A 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 operates in low frequency to maintain high efficiency and low output ripples.

The JW5252 guarantees robustness with hiccup output short-circuit protection, FB short-circuit protection, start-up current run-away protection, input under voltage lockout and hot-plug in protection, and thermal protection.

The JW5252 provides output power good indication which is only available in SOT23-6 package.

The JW5252 is available in 6-pin SOT23-6 and 5-pin SOT23-5 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
- Up to 94% peak efficiency
- High efficiency (>85%) at light load
- Internal Soft-Start
- 1MHz switching frequency
- Input under voltage lockout
- Hot-plug in protection
- Short circuit protection
- Thermal protection
- Output POK indication
- Available in SOT23-6 and SOT23-5 package

### APPLICATIONS

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

### TYPICAL APPLICATION

