

Parameters Subject to Change Without Notice

DESCRIPTION

The JW[®]5017S is a current mode monolithic buck switching regulator. Operating with an input range of 4.5V~26V, the JW5017S delivers 1.2A of continuous output current with two integrated N-Channel MOSFETs. The internal synchronous power switches provide high efficiency without the use of an external Schottky diode. At light loads, regulators operate in low frequency to maintain high efficiency and low output ripple. Current mode control provides tight load transient response and cycle-by-cycle current limit.

The JW5017S guarantees robustness with over current protection and hiccup, thermal protection, start-up current run-away protection, and input under voltage lockout.

The JW5017S is available in 6-pin SOT23-6 package, which provides a compact solution with minimal external components.

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FEATURES

- 4.5 V to 26 V operating input range
- 1.2A output current
- Up to 94% efficiency
- High efficiency (>78%) at light load
- Internal Soft-Start
- Fixed 1.2MHz Switching frequency
- Available in SOT23-6 package
- Input under voltage lockout
- Start-up current run-away protection
- Over current protection and Hiccup
- Thermal protection

APPLICATIONS

- Distributed Power Systems
- Automotive Systems
- High Voltage Power Conversion
- Industrial Power Systems
- Battery Powered Systems

TYPICAL APPLICATION

