

Parameters Subject to Change Without Notice

DESCRIPTION

The JW[®]5026 is a current mode monolithic buck switching regulator. Operating with an input range of 4.7V~40V, the JW5026 delivers 1A 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, the regulator operates in continual conduction mode to maintain low output ripple. Current mode control provides tight load transient response and cycle-by-cycle current limit.

The JW5026 guarantees robustness with short-circuit protection, thermal protection, current run-away protection, and input under voltage lockout.

The JW5026 is available in 6-pin SOT23-6 package, which provides a compact solution with minimal external components.

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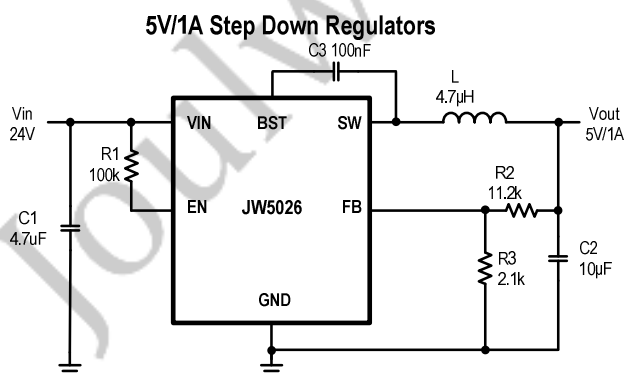
FEATURES

- 4.7V to 40V operating input range
- 1A output current
- Up to 93% efficiency
- FCC at light load
- Internal Soft-Start
- 1.1MHz switching frequency
- Input under voltage lockout
- Available in SOT23-6 package
- Current run-away protection
- Short circuit protection
- Thermal protection

APPLICATIONS

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

TYPICAL APPLICATION



**Efficiency vs Load Current
(Vout = 5V)**

