

*Parameters Subject to Change Without Notice*

## DESCRIPTION

The JW<sup>®</sup>5116 is a current mode monolithic buck switching regulator. Operating with an input range of 4.5-40V, the JW5116 delivers 3A of continuous output current with an integrated high side N-Channel MOSFET. At light loads, JW5116 operates in low frequency to maintain high efficiency and low output voltage ripple. Current mode control provides tight load transient response and cycle-by-cycle current limiting.

The JW5116 guarantees robustness with input under-voltage lockout, start-up current run-away protection, output short protection, feedback short protection and thermal protection.

The JW5116 is available in 8-pin SOP package, which provides a compact solution with minimal external components.

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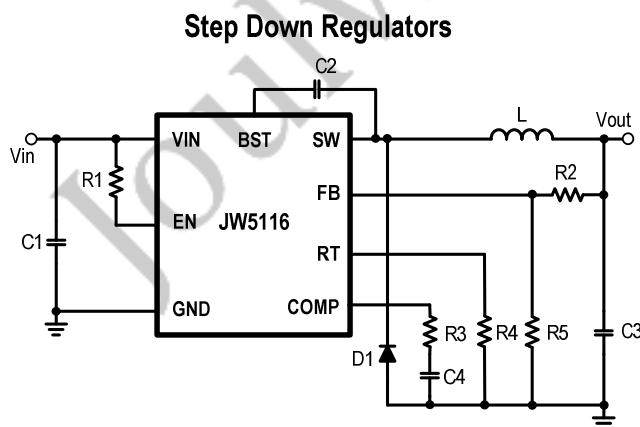
## FEATURES

- 4.5V to 40V operating input range
- 3A output current
- Up to 94% efficiency
- High efficiency (>78%) at light load
- Internal Soft-Start
- Adjustable switch frequency
- Input under-voltage lockout
- Start-up current run-away protection
- Output short protection
- Feedback short protection
- Thermal protection
- Available in SOP8 and ESOP8 package

## APPLICATIONS

- Distributed Power Systems
- Networking Systems
- FPGA, DSP, ASIC Power Supplies
- Green Electronics/ Appliances
- Notebook Computers

## TYPICAL APPLICATION



**Efficiency@Vout=5V**

