

*Parameters Subject to Change Without Notice*

## DESCRIPTION

The JW<sup>®</sup>5040 is a current mode monolithic buck voltage converter. Operating with an input range of 3.8V-18V, the JW5040 delivers 2.7A of continuous output current with two integrated N-Channel MOSFETs. At light loads, regulators operate in low frequency to maintain high efficiency and low output ripple.

The JW5040 guarantees robustness with short circuit protection, thermal protection, current run-away protection, and input under voltage lockout.

The JW5040 is available in a 6-pin SOT563 and TSOT23-6 package, which provides a compact solution with minimal external components.

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## FEATURES

- 3.8V to 18V operating input range  
3A peak current
- Up to 95% efficiency
- High efficiency at light load
- 500kHz Switching frequency
- Input under voltage lockout
- Start-up current run-away protection
- Over current protection and Hiccup
- Thermal protection
- Available in SOT563 and TSOT23-6 package

## APPLICATIONS

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

## TYPICAL APPLICATION

### 3A Peak Current Step Down Regulator

