

*Parameters Subject to Change Without Notice*

## DESCRIPTION

The JW<sup>®</sup>5074 is a monolithic buck switching regulator based on I<sup>2</sup> architecture for fast transient response. Operating with an input range of 4V~20V, JW5074 delivers 8A 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 low frequency to maintain high efficiency and low output ripples.

JW5074 guarantees robustness with output short protection, thermal protection, current run-away protection, and input under voltage lockout.

JW5074 is available in QFN3X3-20 package, which provide a compact solution with minimal external components.

*Company's Logo is Protected, "JW" and "JOULWATT" are Registered Trademarks of JoulWatt technology Inc.*

## FEATURES

- 4V to 20V operating input range
- 8A continuous output current
- Up to 95% efficiency
- High efficiency at light load
- 500kHz switching frequency
- Power good indicator
- Input under voltage lockout
- Output discharge function
- Output short protection
- Thermal protection
- Available in QFN3X3-20 package

## APPLICATIONS

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

## TYPICAL APPLICATION

