



JW5359/JW5359M JW5359F/JW5359FM

18V/2A

Sync. Step-Down Converter

DESCRIPTION

The JW[®]5359, JW[®]5359M, JW[®]5359F and JW[®]5359FM are monolithic buck switching regulators based on I2 architecture for fast transient response. Operating with an input range of 4.5V~18V, JW5359, JW5359M, JW5359F and JW5359FM deliver 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, JW5359 and JW5359M operate in low frequency to maintain high efficiency.

JW5359, JW5359M, JW5359F and JW5359FM guarantee robustness with output short protection, thermal protection, current run-away protection and input under voltage lockout.

JW5359, JW5359M, JW5359F and JW5359FM are available in SOT23-6 package, which provides a compact solution with minimal external components.

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FEATURES

- 4.5V to 18V operating input range
- 2A output current
- Up to 95% efficiency
- FCCM at light load (JW5359F / JW5359FM)
- PFM at light load (JW5359 / JW5359M)
- 600kHz switching frequency
- Internal soft-start
- Input under-voltage lockout
- Current run-away protection
- Output short protection
- Thermal protection
- Available in SOT23-6 package

APPLICATIONS

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

TYPICAL APPLICATION

