

DESCRIPTION

The JW5188DH is a monolithic buck switching regulator based on I2 architecture for fast transient response. Operating with an input range of 4V~23V, JW5188DH 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 selectable PFM/FCCM mode.

JW5188DH guarantees robustness with output short protection, thermal protection, current run-away protection, and input under voltage lockout. JW5188DH is available in QFN2.5X2.5-16 package, which provides a compact solution with minimal external components.

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FEATURES

- 4V to 23V Operating Input Range
- 8A Continuous Output Current
- Up to 95% Efficiency
- PFM/FCCM Selectable at Light Load
- 600kHz Switching Frequency
- External Bypass Input
- Programmable Valley Current Limit
- Power Good Indicator
- Input Under Voltage Lockout
- Output Discharge Function
- Current Run-away Protection
- Output Short Hiccup Protection
- Thermal Protection
- RoHS Compliant and Halogen Free
- Available in QFN2.5X2.5-16 Package

APPLICATIONS

- Industrial and Commercial Low Power System
- Notebook
- LCD Monitors and TVs
- Green Electronics/ Appliances

TYPICAL APPLICATION

