

DESCRIPTION

The JW5070 is a monolithic buck switching regulator based on PCM architecture. Operating with an input range of 4.5V~28V, JW5070 delivers 3A 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.

JW5070 guarantees robustness with output short protection, thermal protection, current run-away protection, input under voltage lockout.

JW5070 is available in TSOT23-6 package, which provide a compact solution with minimal external components.

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FEATURES

- 4.5V to 28V Operating Input Range
- Integrated 80mΩ and 40mΩ MOSFETs
- 50uA Quiescent Current
- $0.596V \pm 1\%$ Reference Voltage
- Fixed 500kHz Switching Frequency
- Accurate EN Control
- Input Under Voltage Lockout
- Current Run-away Protection
- Output Short Protection
- Thermal Protection
- Available in TSOT23-6 Package

APPLICATIONS

- Industrial Application: Appliance, Surveillance, E-meter
- Enterprise System: Multifunction Printers
- Personal Electronics: Monitors, Audios, TVs
- General Purpose for Power Bus Supply

TYPICAL APPLICATION

28V/3A Step-down Regulator

