



JWH5123 Series

65V/3.5A Asynchronous Step-Down Converter

DESCRIPTION

The JWH[®]5123 series are current mode monolithic buck switching regulators. Operating with an input range of 4.5V~65V, the JWH5123 series delivers 3.5A of continuous output current with an integrated high side N-Channel MOSFET. At light loads, the regulator operates in low frequency to maintain high efficiency. Current mode control provides tight load transient response and cycle-by-cycle current limit.

The JWH5123 series guarantees robustness with short-circuit protection, thermal protection, current run-away protection, and input under voltage lockout.

The JWH5123 series is available in DFN4x4-10 package, the JWH5123S and JWH5123P are available in ESOP8 package, which provides a compact solution with minimal external components.

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FEATURES

- 4.5V to 65V operating input range
3.5A output current
- $0.8V \pm 1\%$ internal voltage reference (JWH5123)
- $0.75V \pm 1\%$ internal voltage reference (JWH5123S/JWH5123P)
- Adjustable switching frequency
- Power Good Indicator (JWH5123/JWH5123P)
- External Soft-start (JWH5123/ JWH5123S)
- Adjustable UVLO and hysteresis
- Current run-away protection
- Short circuit protection
- Thermal protection
- Available in DFN4x4-10 package (JWH5123)
- Available in ESOP8 package (JWH5123S/JWH5123P)

APPLICATIONS

- Industrial Automation and Motor Control
- Vehicle Accessories: GPS Entertainment
- USB Dedicated Charging Ports and Battery Chargers
- 12-V, 24-V and 48-V Industrial, Automotive and Communications Power Systems