

Parameters Subject to Change Without Notice

DESCRIPTION

The JW[®]7115 series and JW7111 are all single channel current-limited power switch optimized for Universal Serial Bus (USB) and other hot-swap applications. The rise and fall times are controlled to minimize current overshoot or undershoot during switches on/off.

The device has fast short-circuit response time for improved overall system robustness. It provides a complete protection solution, such as over-current protection, over-temperature protection and short-circuit protection, as well as controlled rise time and under-voltage lockout function. A 7.5ms de-glitch time on the open-drain Flag output prevents false over-current reporting.

JW7115 Series offer SOT23-5 package. JW7111 offers both DFN2X2-6 and SOT23-6 packages.

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FEATURES

- 50mΩ Integrated N-MOSFET Switch
- Accurate Current Limit
- FLG: active low
- Constant-Current During Over-Current
- Fast Short-Circuit Response Time: 2μs (typ.)
- Operating Range: 2.7V - 5.5V
- Built-in Soft-Start with 3ms Typical Rise Time
- Over-Current, Output Over-Voltage and Thermal Protection
- Fault Report (FAULT) with De-glitch Time
- UL Recognized, File Number E497605
- IEC Recognized, File Number DK-69902-UL
- ESD Protection: 2kV HBM, 500V CDM
- Available in SOT23-5, SOT23-6 and DFN2X2-6 Packages

APPLICATIONS

- Set-Top Boxes
- LCD TVs & Monitors
- Residential Gateways
- Laptops, Desktops, Servers, e-books, Printers, Docking
- Stations, HUBs

TYPICAL APPLICATION

