

Parameters Subject to Change Without Notice

DESCRIPTION

The JW[®]7105/JW7105A is a current-limited programmable USB switches optimized for applications that require precise current limit, or to provide up to 2.4A of continuous load current during heavy loads/short circuits. These devices offer a programmable current-limit threshold between 550mA and 2.4A (Typ.) by an external resistor. 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 deglitch time on the open-drain Flag output prevents false over-current reporting.

JW7105/JW7105A offers SOT23-5 packages.

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FEATURES

- Up to 2.4A Maximum Load Current
- Accurate Programmable Current Limit, 550mA-2.4A
- JW7105:EN active high
JW7105A:EN 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, and Thermal Protection
- ESD Protection: 2kV HBM, 500V CDM
- Available in SOT23-5 Packages

APPLICATIONS

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

TYPICAL APPLICATION

