

DESCRIPTION

The JW7115Sx/JW7111Sx is a single channel current-limited power switch optimized for Universal Serial Bus (USB) and other hot-swap applications. The rising and falling times are controlled to minimize current overshoot or undershoot during switches on/off.

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

JW7115Sx offers SOT23-5 package. JW7111Sx offers both DFN2X2-6 and SOT23-6 packages.

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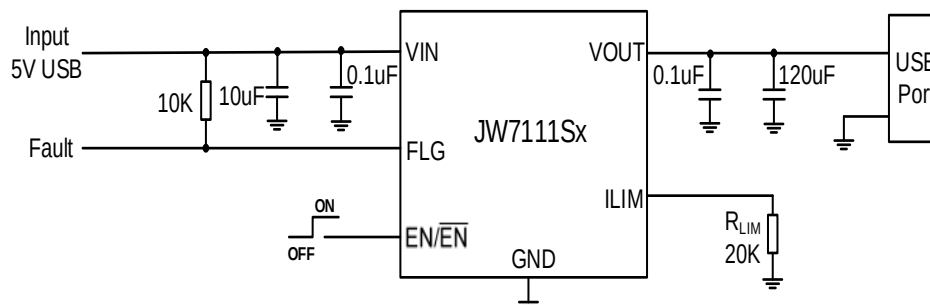
FEATURES

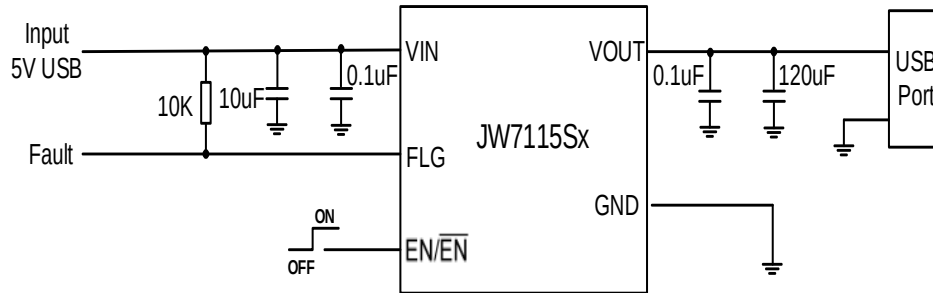
- Accurate current limit
- FLG: active low
- Reverse current blocking during shutdown and reverse current limit during enable
- Constant-current during over-current
- Fast short-circuit response time: 2 μ s (typ.)
- Operating range: 2.7V - 5.5V
- Over-current protection, short-circuit Protection and thermal protection
- Fault report (FAULT) with de-glitch time
- UL recognized, file number E497605
- IEC recognized, file number DK-83242-UL and DK-90295-UL
- ESD protection: 2kV HBM, 750V 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





For 3 Use Only

ORDER INFORMATION

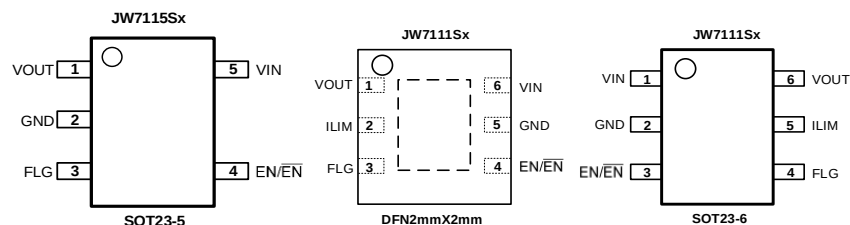
DEVICE ¹⁾	PACKAGE	TOP MARKING ²⁾	ENABLE	CURRENT LIMIT
JW7115S-1SOTA#TRPBF	SOT23-5	JWLY□ YW□□□	Active High	1.3A
JW7115S-2SOTA#TRPBF	SOT23-5	JWLZ□ YW□□□	Active High	2.2A
JW7115SA-1SOTA#TRPBF	SOT23-5	JWMB□ YW□□□	Active Low	1.3A
JW7115SA-2SOTA#TRPBF	SOT23-5	JWMC□ YW□□□	Active Low	2.2A
JW7111SSOTB#TRPBF	SOT23-6	JWCR□ YW□□□	Active High	RSET
JW7111SDFNB#TRPBF	DFN2x2-6	JWCS□ YW□□□	Active High	RSET
JW7111SASOTB#TRPBF	SOT23-6	JWCT□ YW□□□	Active Low	RSET
JW7111SADFNB#TRPBF	DFN2x2-6	JWCU□ YW□□□	Active Low	RSET

Notes:

- 1) JW□□□ # TRPBF
- PB Free
 - Tape and Reel(If "TR" is not shown, it means tube)
 - Package Code
 - Part No.
- 2) Line1: JW□□□
- Internal control code
 - Product code
 - Joulwatt LOGO
- Line2: YW□□□
- Lot number
 - Week code
 - Year code

PIN CONFIGURATION

TOP VIEW



PIN DESCRIPTION

Name			Description	
SOT23-5	SOT23-6	DFN2X2-6		
1	6	1	VOUT	Output voltage
2	2	5	GND	Ground(0V)
3	4	3	FLG	Active-low open-drain output, asserted during over-current, over-temperature.
4	3	4	EN/ $\overline{\text{EN}}$	Enable input
				JW7115S-1/JW7115S-2/JW7111S: logic high turns on power switch.
				JW7115SA-1/JW7115SA-2/JW7111SA: logic low turns on power switch.
5	1	6	VIN	Input, connect a 10 μ F or greater ceramic capacitor from VIN to GND as close to IC as possible.
-	5	2	ILIM	Use external resistor to set current-limit threshold; Recommended $10\text{k}\Omega \leq R_{\text{LIM}} \leq 49.9\text{k}\Omega$.

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