



ZHEJIANG UNIÜ-NE Technology CO., LTD
浙江宇力微新能源科技有限公司



U0218/9 Data Sheet

V 1.1

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General Description

The U0218/9 is a high frequency, synchronous, rectified, step-down, switch-mode converter with internal power MOSFETs. It offers a very compact solution to achieve a 3A peak output current over a wide input supply range, with excellent load and line regulation.

U0219 ECOT PSM control operation provides very fast transient response and easy loop design as well as very tight output regulation.

The U0218/9 requires a minimal number of readily available, external components and is available in a space saving SOT23-6 package.

Packages



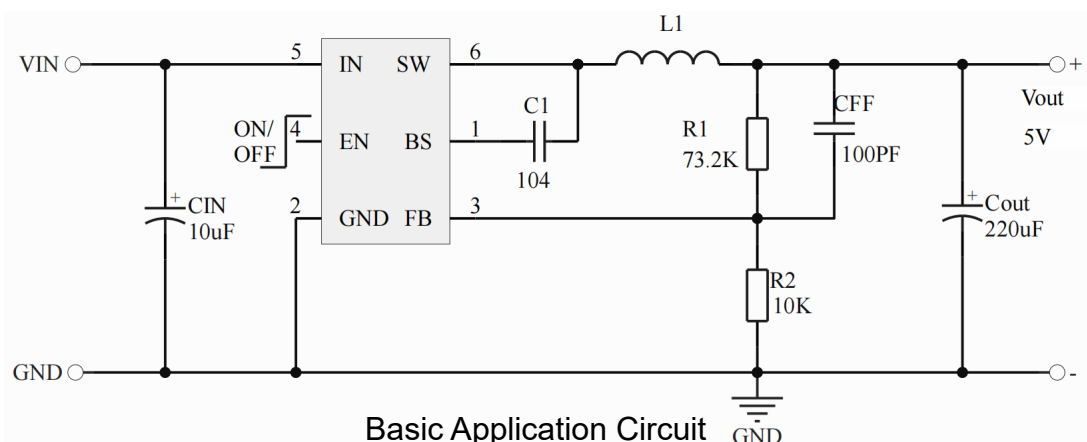
Key Features

- Wide 4V to 18V Operating Input Range
- 2A MAX Output Current
- 500KHz Switching Frequency
- Short Protection with Hiccup-Mode
- Built-in Over Current Limit
- Built-in Over Voltage Protection
- Internal Power-Save Mode (PFM/PWM)
- Internal Soft-Start
- 110mΩ/70mΩ Low RDS(ON) Internal Power MOSFETs
- Output Adjustable from 0.6V
- No Schottky Diode Required
- Integrated internal compensation
- Thermal Shutdown
- Available in SOT23-6 Package
- -40°C to +85°C Temperature Range
- ECOT PSM Mode (U0219)

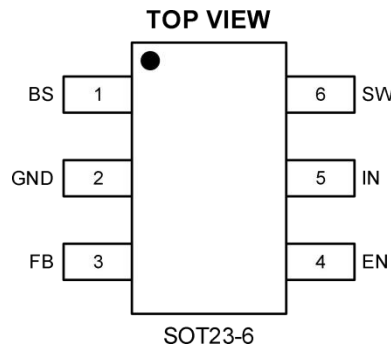
Applications

- Digital Set-top Box (STB)
- Tablet Personal Computer (Pad)
- Flat-Panel Television and Monitor
- Wi-Fi Router / AP
- Digital Video Recorder (DVR)
- Portable Media Player (PMP)
- Cable Modem / XDSL
- General Purposes

Typical Application Circuit



Pin Configuration



Pin Description

Pin	Name	Function
1	BS	Bootstrap. A capacitor connected between SW and BST pins is required to form a floating supply across the high-side switch driver.
2	GND	GROUND Pin
3	FB	Adjustable Version Feedback input. Connect FB to the center point of the external resistor divider
4	EN	Drive this pin to a logic-high to enable the IC. Drive to a logic-low to disable the IC and enter micro-power shutdown mode.
5	IN	Power Supply Pin
6	SW	Switching Pin

Order Information

Model	Description	Package	T/R Qty
U0218	U0218 Buck, 4-18V, 2A, 500KHz, VFB 0.6V, SOT23-6	SOT23-6	3000PCS
U0219	U0219 ECOT PSM Buck, 4-18V, 2A, 500KHz, VFB 0.6V, SOT23-6	SOT23-6	3000PCS

1.版本记录

DATE	REV.	DESCRIPTION
2018/04/19	1.0	First Release
2021/11/15	1.1	Layout adjustment

2.免责声明

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