



ZHEJIANG UNIU-NE Technology CO., LTD

浙江宇力微新能源科技有限公司



U0349 Data Sheet

V 1.3

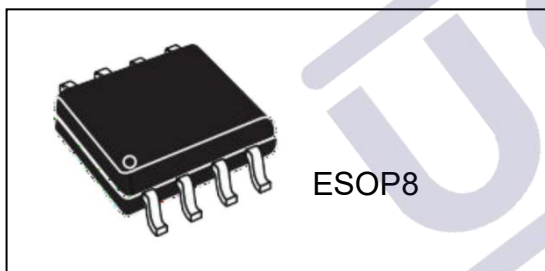
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General Description

The U0349 is a high frequency, synchronous, rectified, step-down, switch-mode converter with internal power MOSFETs. U0349 provides different frequency and FB versions, which can be selected according to different applications. It offers a very compact solution to provide a 3A max output current over a wide input supply range, with excellent load and line regulation. ECOT PSM control operation provides very fast transient response and easy loop design as well as very tight output regulation.

The U0349 requires a minimal number of readily available, external components and is available in an ESOP8 package.

Packages



ESOP8

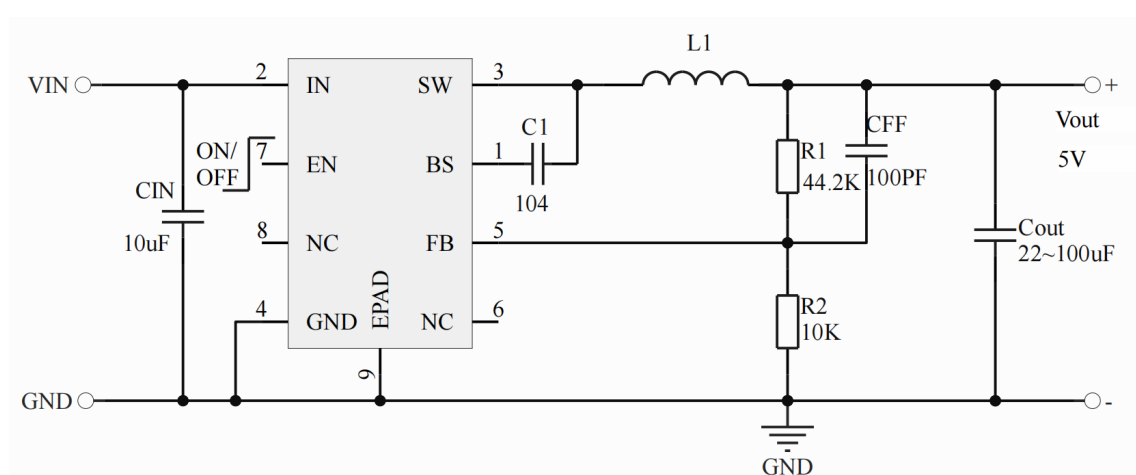
Key Features

- Wide 4.5V to 35V Operating Input Range
- 2A MAX Output Current
- 500K Switching Frequency
- ECOT Mode Control with Fast Transient Response
- Built-in Over Current Limit
- Built-in Over Voltage Protection
- PFM Mode for High Efficiency in Light Load
- Internal Soft-Start
- 25mΩ/15mΩ Low $R_{DS(ON)}$ Internal Power MOSFETs
- Output Adjustable from 0.923V
- No Schottky Diode Required
- Short Protection with Hiccup-Mode
- Integrated internal compensation
- Thermal Shutdown
- Available in ESOP8 Package
- -40°C to +85°C Temperature Range

Applications

- Automotive Systems
- Network Terminal Equipment
- Security Monitoring Camera
- Printer Systems
- Industrial Power Systems
- Distributed Power Systems

Typical Application Circuit



Basic Application Circuit

1.版本记录

DATE	REV.	DESCRIPTION
2018/04/19	1.0	First Release
2021/11/02	1.1	Layout adjustment
2023/12/08	1.2	Optimize input and output capacitance
2024/01/22	1.3	Remove non-mass-produced products

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