深圳市芯创世纪电子有限公司



SE3806

1.5A synchronous Step-Down Converte

General Description(产品描述)

The SE3806 is а high-efficiency monolithic synchronous buck regulator using a constant frequency, current mode architecture. The device is available in an adjustable version. Supply current with no load is 40uA and drops to <1uA in shutdown. The 2.5V to 6V input voltage range makes the SE3806 ideally suited for single Li-lon battery powered applications. 100% duty cycle provides low dropout operation, extending battery life in portable systems. PWM/PFM mode operation provides very low output ripple voltage for noise sensitive applications. Switching frequency is internally set at 1.5MHz, allowing the use of small surface mount inductors and capacitors. Low output voltages are easily supported with the 0.6V feedback reference voltage. The SE3806 is offered in a low profile (1mm) 5-pin, thin SOT package, and is available in an adjustable version.

Features(产品特性)

- High Efficiency: Up to 96%
- 2.5V to 6V Input Voltage Range
- 1.5MHz Constant Frequency Operation
- No Schottky Diode Required
- Low Dropout Operation:100% Duty Cycle
- PFM Mode for High Efficiency in Light Load
- Over temperature Protected
- Low Quiescent Current: 40µA
- Short Circuit Protection
- Inrush Current Limit and Soft Start
- SOT23-5 package

Applications(产品应用)

- Cellular and Smart Phones
- Wireless and DSL Modems
- PDAs
- Portable Instruments
- Digital Still and Video Cameras
- PC Cards

Typical Application (典型应用电路)

