

製品概要

NCP1521B: Buck Converter, DC-DC, 1.5 MHz, 600 mA

技術情報は、データシートをご参照ください。

The NCP1521B step-down PWM DC-DC converter is optimized for portable applications powered from one cell Li-ion or three cell Alkaline/NiCd/NiMH batteries. The part is available in adjustable output voltage versions ranging from 0.9 V to 3.3 V. It uses synchronous rectification to increase efficiency and reduce external part count. The device also has a built-in 1.5 MHz (nominal) oscillator which reduces component size by allowing smaller inductors and capacitors. Automatic switching PWM/PFM mode offers improved system efficiency. Additional features include integrated soft-start, cycle-by-cycle current limiting and thermal shutdown protection. The NCP1521B is available in space saving, low profile TSOP5 and UDFN6 packages.

特長

- 96% efficiency, 30 uA quiescent current, 0.3 uA shutdown current
- 1.5 MHz switching frequency
- Auto-switching between PWM and PFM mode at light load conditions
- Adjustable output voltage from 0.9V to 3.3V
- Best in class Low Ripple even in PFM mode

利点

- Extends battery life and 'play-time'
- Allows use of smaller inductor and capacitor
- Low power consumption at light loading

アプリケーション

- Power supply for application processor
- Power supply for processor with low core voltage

最終製品

- Cellular phones, smart phones, and PDAs
- MP3 players and portable audio systems
- Digital still cameras and video cameras

電氣的仕様

製品	Pricing (\$/Unit)	Compliance	Status	Topology	Control Mode	V _{CC} Min (V)	V _{CC} Max (V)	V _O Typ (V)	I _O Typ (A)	Efficiency (%)	f _{SW} Typ (kHz)	Package Type
NCP1521BSNT1G	0.28	Pb-free Halide free	Active	Step-Down	Current Mode	2.7	5.5	0.9 to 3.3	0.6	96	1500	TSOP-5 / SOT-23-5

詳細は、弊社 www.onsemi.jp の営業または販売代理店にお問い合わせください。

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