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NCP1423EVB:NCP1423 400 mA DC - DC Converter Evaluation Board

Evaluation Board Description

The NCP1423 is a monolithic micropower high frequency step ? up switching converter IC specially designed for battery operated hand held electronic products. It integrates Synchronous Rectifier for improving efficiency as well as eliminating the external Schottky Diode. High switching frequency (up to 600 kHz) allows a low profile inductor and output capacitor to be used. When the IC is disabled the internal conduction path from pin LX or BAT to pin OUT is blocked. The OUT pin is isolated from the battery, which achieves True ? Cutoff. Ring ? Killer is also integrated to eliminate the high frequency ringing in discontinuous conduction mode. Low Battery Detector, Cycle ? by ? Cycle Current Limit, Overvoltage Protection and Thermal Shutdown provide value added features for various battery operated application. With all of these functions on the quiescent supply current is only 9.0 mA. This device is available in a compact Micro10 package.

Features and Applications

Features

- High Efficiency:
 - 92% for 3.3 V Output @ 400 mA from 2.5 V Input
 - 89% for 1.8 V Output @ 100 mA from 1.2 V Input
- 0.8 V Startup at No Load Guaranteed
- External Adjustable Output Voltage
- ± 1.5% Output Voltage Accuracy
- Open Drain Low Battery Detector Output
- Output Current up to 400 mA at VOUT = 3.3 V, 200 mA at VOUT = 1.8 V
- Pb Free Package is Available

Evaluation Board Information

Evaluation Board	Status	Pb-free	Short Description	Parts Used	Action
NCP1423EVB	Active		NCP1423 400 mA DC - DC Converter Evaluation Board	NCP1423DMR2 , NCP1423DMR2G	Contact Local Sales Office

Technical Documents

Type	Document Title	Document ID/Size	Rev
Eval Board: BOM	NCP1423EVB BILL OF MATERIALS	NCP1423EVB_BOM.PDF - 70.0 KB	2
Eval Board: Gerber	NCP1423EVB GERBER LAYOUT FILES	NCP1423EVB_GERBER.ZIP - 97.0 KB	1
Eval Board: Schematic	NCP1423EVB SCHEMATIC	NCP1423EVB_SCHEMATIC.PDF - 54.0 KB	2
Eval Board: Test Procedure	NCP1423EVB TEST PROCEDURE	NCP1423EVB_TESTPROCEDURE.PDF - 70.0 KB	2

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