Product Overview

NCV6323: Synchronous Buck Converter, 3 MHz, 2 A

For complete documentation, see the data sheet

Product Description

The NCV6323 is a synchronous buck Converter which is optimized to supply different sub systems of portable applications powered by one cell Li-ion or three cell alkaline/NiCd/NiMH batteries. The devices are able to deliver up to 2 A on an external adjustable voltage. Operation with 3 MHz switching frequency allows employing small size inductor and capacitors. Input supply voltage feedforward control is employed to deal with wide input voltage range. Synchronous rectification offer improved system efficiency. The NCV6323 is in a space saving, low profile 2.0 x 2.0 x 0.75 mm WDFN-8 package.

Features

- 2.5 V to 5.5 V Input Voltage Range
- 3 MHz Switching Frequency
- Up to 2 A output current

Benefits

- Support Latest Battery
- Reduced output inductor and capacitor size

Applications

- Computing & Peripherals Applications
- Consumer Applications

End Products

- USB Powered Devices
- Game and Entertainment System

Part Electrical Specifications

Product	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
NCV6323BMTAATBG	AEC Qualified PPAP Capable Pb-free Halide free	Active	Step-Down	Voltage Mode	2.5	5.5	0.6 to 5.0	2	96	3000	WDFN-8

For more information please contact your local sales support at www.onsemi.com

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