



Product Overview

NCV6334: 3.0 MHz, 2.0 A PFM/PWM Synchronous Step Down Converter with Power Good

For complete documentation, see the data sheet

Product Description

The NCV6334B, a synchronous buck converter, which is optimized to supply the different sub systems of portable applications powered by one cell Li-ion or three cell Alkaline/NiCd/NiMH batteries. The device is 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 offers improved system efficiency. The NCV6354 is in a space saving, low profile 2.0x2.0x0.75 mm WDFN-8 package.

FeaturesBenefits

- 2.3 V to 5.5 V Input Voltage Range
  - 3 MHz Switching Frequency
  - Automatic Power Save Mode
- Support Latest Battery
  - Reduced output inductor and capacitor size
  - Lower Quiescent Current

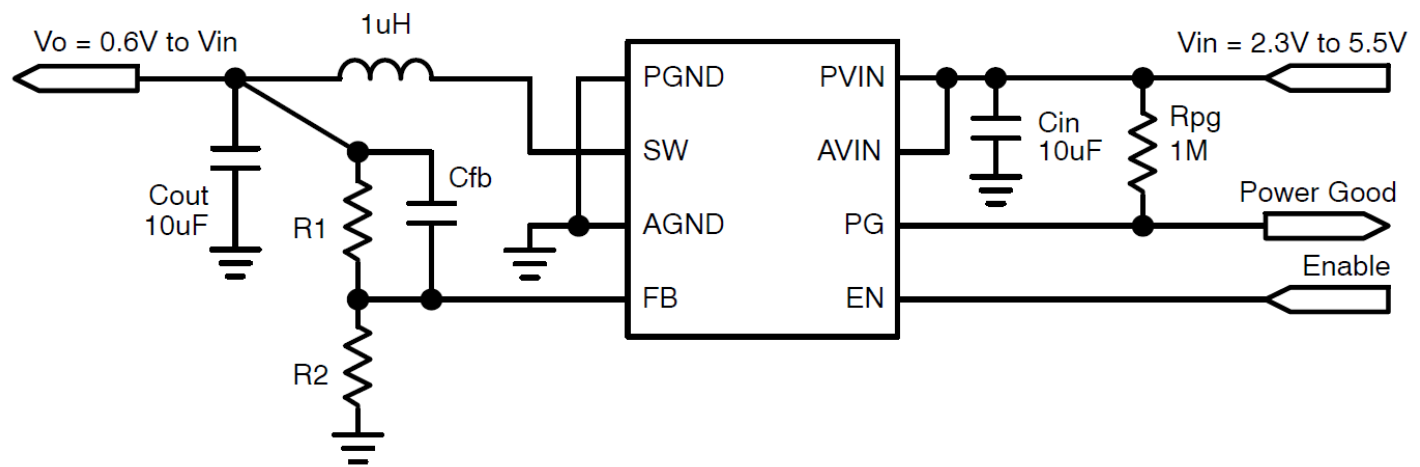
ApplicationsEnd Products

- Consumer Applications
  - Computing & Peripherals Applications
- Game and Entertainment System
  - USB Powered Devices

Part Electrical Specifications

Product	Compliance	Status	Topology	Control Mode	V <sub>CC</sub> Min (V)	V <sub>CC</sub> Max (V)	V <sub>O</sub> Typ (V)	I <sub>O</sub> Typ (A)	Efficiency (%)	f <sub>sw</sub> Typ (kHz)	Package Type
NCV6334BMTAATBG	AEC Qualified PPAP Capable Pb-free Halide free	Active	Step-Down	Voltage Mode	2.3	5.5	0.6 to 5.0	2	96	3000	WDFN-8

Application Diagram



For more information please contact your local sales support at [www.onsemi.com](http://www.onsemi.com)

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