



Product Overview

NCV6354: 3.0 MHz, 2.0 A PWM Synchronous Step Down Converter with Power Good

For complete documentation, see the data sheet

Product Description

The NCV6354, 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 or a fixed output voltage range from 0.6 V to 3.3 V upon request. 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
  - Up to 2A output current
- Support Latest Battery
  - Reduced output inductor and capacitor size

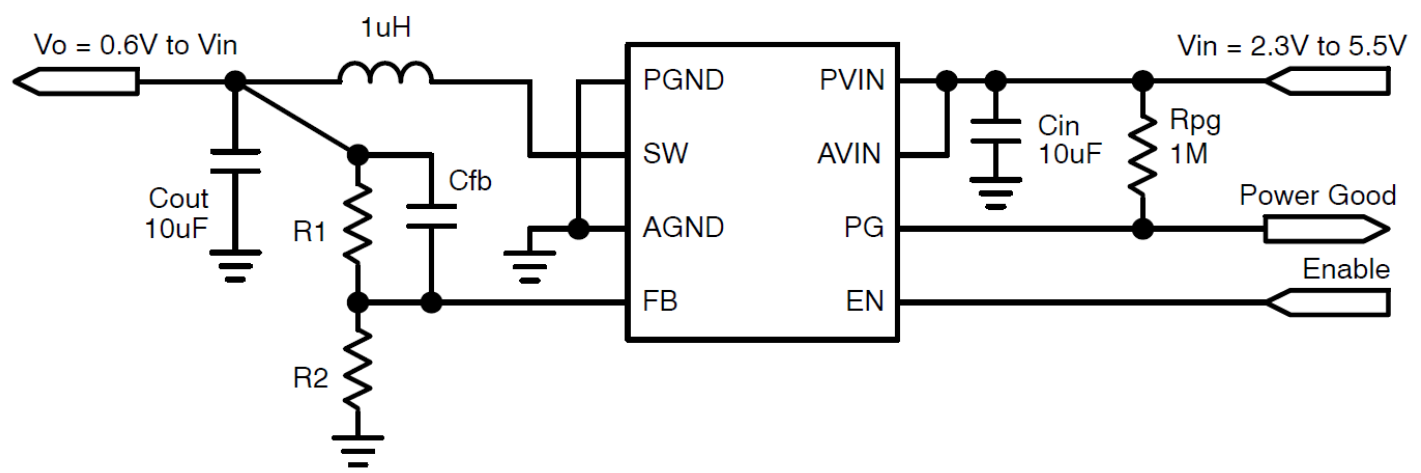
ApplicationsEnd Products

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

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
NCV6354BMTAATBG	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)

Created on: 7/11/2015