

AP2760 0.85V STARTUP, 1MHZ, 300mA SYNCHRONOUS BOOST STEP-UP DC-DC CONVERTER

General

Description

The

A2760 is a step-up converter that provides a boosted output voltage from a low voltage source. Because of its proprietary design, it starts up at a very low input voltage down to 0.85V, making it an ideal choice for single cell Alkaline/ NiMH battery operations.

A switching frequency of 1MHz minimizes solution footprint by allowing the use of tiny, low profile inductors and ceramic capacitors. The internally compensated current mode PWM design and built-in synchronous rectifier help to reduce external parts count.

Key Specification

- Output current 300mA (typ)
- Efficiency 95% (typ)
- Output voltage accuracy $\pm 3\%$ (max)
- Startup Voltage 0.85V (typ)
- Quiescent Current 25uA (typ)
- Shutdown Current 0.1uA (typ)

Features

- High Efficiency up to 95%
- 1MHz Switching Frequency Allows Small Inductor and Output Cap
- Input Boost-Strapping Allows Small or No Input Cap
- Low VIN Start-up Voltage down to 850mV Ideal for Single Alkaline Cell operations

AP2760 0.85V Startup, 1MHz, 300 mA Synchronous Boost Step-up DC-DC Converter

Written by Administrator

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- Low Noise PWM Control
- Internally Compensated Current Mode Control
- Internal Synchronous Rectifier
- Logic Control Shutdown (0.1uA shutdown current)
- Space-saving Package (SOT-25)

Applications

- One to Three Cell Battery Operated Devices
- Medical Instruments
- Bluetooth Headsets
- Flash-Based MP3 Players
- Noise Canceling Headphones

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BOOST STEP-UP DC-DC CONVERTER

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