

10 μ A I_Q, 0.85V Startup, 1MHz, 300mA I_{OUT} Synchronous Step-Up DC-DC

FEATURES

- 10 μ A No Load Supply Current
- Low V_{IN} Start-up Voltage down to 850mV
- Capable of delivering 300mA I_{OUT} at V_{IN}=3.0V, V_{OUT}=3.3V
- 1MHz Switching Frequency
- Input boost-strapping allows using small cap
- Low Noise PWM control
- Internally Compensated Current Mode Control
- Internal Synchronous Rectifier
- Logic Control Shutdown (I_Q<1 μ A)
- Available in SOT23-5

APPLICATIONS

- Medical Instruments
- Bluetooth Headsets
- Flash-Based MP3 Players
- Wireless Mice
- One to Three Cell Battery Operated Devices

DESCRIPTION

The ETA1017 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 850mV. Along with its 10 μ A ultra-low no load input current, it is 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 current mode PWM design is internally compensated, reducing external parts count.

ETA1017 is housed in a tiny SOT23-5 package.

TYPICAL APPLICATION

