

## Low Input Voltage PWM Step-Up DC/DC Converter

### General Description:

The 3010 provides a power-supply solution for products powered by either a single-cell, two-cell, or three-cell alkaline, NiCd or NiMH, or one-cell Li-Ion or Li-polymer battery. Possible output currents depend on the input-to-output voltage ratio. The boost converter is based on a hysteretic controller topology using synchronous rectification to obtain maximum efficiency at minimal quiescent currents. The output voltage of the adjustable version can be programmed by an external resistor divider, or is set internally to a fixed output voltage. The converter can be switched off by a featured enable pin. While being switched off, battery drain is minimized. The device is packaged in a 6-pin thin SOT-23 package.

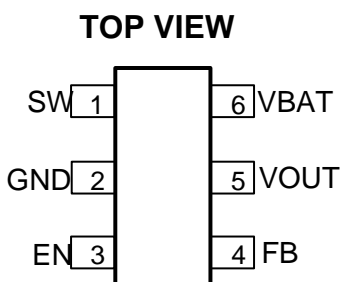
### Features:

- Up to 94% Efficiency
- Truly Shut Down
- Output Over Voltage Protection
- Over Temperature Protection
- Low Shutdown Current: < 1μA
- Low Quiescent Current: 16μA
- Low No-load Input Current (see Typical Performance Characteristics for detail)
- Output Disconnect by Shutdown Function
- Small SOT23-6 Package

### Application:

- Wireless Mice
- Medical Instruments
- Smart Phones
- Bluetooth Headsets

### Pin Configuration:



### Ordering Information:

Part Number	Package	Shipment
3010-AAC	SOT23-6	Tape&Reel / 3000

- A : Standard Mode
- AC : Package Type SOT23-6