

NERO SWITCHER™ (Nano-IQ Efficient Rapid Output) 600mA Step-Down Regulator

Features

- σ Input Voltage Range from 2.2V to 6.5V
Operates with Single Li-ion and LiMnO₂
- σ Output Voltage Range from 0.7V to 3.3V
- σ Up to 600mA Output Current
- σ Up to 96% Efficiency
- σ 88% Efficiency at 10uA Load Current
- σ **NERO Switcher™** Power Save Mode 360nA Quiescent Current at Light Load
- σ **NERO Switcher™** Rapid Output Load Transient Responses
- σ Internal compensated
- σ 2MHz Switching Frequency at PWM
- σ Output voltages options from 0.7V to 3.3V
- σ 0.91mm x 1.33mm 6-Ball WLCSP Package and 1.5mm x 2mm DFN-6L Package

Applications

- σ IoT
- σ Wearable
- σ Bluetooth
- σ Battery Powered Devices

Description

The SX01P6B is a high efficiency step down regulator with ultra-low quiescent current of typical 360nA. SX01P6B operates with input voltage range from 2.2V to 6.5V and it is able to deliver up to 600mA output current.

The SX01P6B provides programmable output voltages between 0.7V to 3.3V.

The **NERO Switcher™** provides high efficiency down to 10uA load current and rapid load transient responses with switching frequency up to 2MHz at heavy load.

Typical Application Circuits

