

# **NERO SWITHER**<sup>™</sup> (**N**ano-IQ **E**fficient **R**apid **O**utput) 600mA Step-Down Regulator

#### **Features**

- $\sigma$  Input Voltage Range from 2.2V to 5.5V Operates with Single Li-ion and LiMnO<sub>2</sub>
- 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
- $\sigma$  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

### **Description**

The SX01P6 is a high efficiency step down regulator with ultra-low quiescent current of typical 360nA. SX01P6 operates with input voltage range from 2.2V to 5.5V and it is able to deliver up 600mA output current.

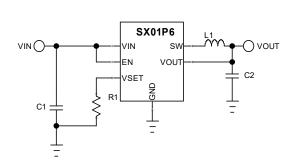
The SX01P6 provides programmable output voltages between 0.7V to 3.3V.

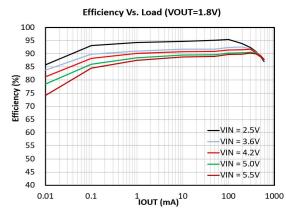
The **NERO Switcher**<sup>TM</sup> provides high efficiency down to 10uA load current and rapid load transient responses with switching frequency up to 2MHz at heavy load.

#### **Applications**

- $\sigma$  IoT
- σ Wearable
- σ Bluetooth
- σ Battery Powered Devices

## **Typical Application Circuits**





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