NEO SWITCH™ (Nano-IQ Enhanced Operation)
60mΩ R_{ON} 2A Load Switch
with Reverse Current Block and Output Short Protection

Features

σ Input Voltage Range from 1V to 5.5V

σ Up to 2A Output Current

σ Typical Ultra-Low R_{ON} – 60mΩ

σ Low Quiescent Current – 65nA

σ Internal Soft-start – 200µs(maximum)

σ Reverse Current Block

σ Output Short Protection

σ 150Ω Output Discharge

σ 0.77mm x 0.77mm 4-Ball WLCSP Package

Applications

σ IoT

σ Wearable

σ Solid State Drive

σ Battery Powered Devices

σ Digital Camera

Description

The SX1801 is an ultra-efficient load switch with ultra-low quiescent current of typical 65nA. SX1801 operates with input voltage range from 1.0V to 5.5V. It is able to deliver up 2A output current.

The SX1801 provides ultra-low Quiescent Current I_Q and Shutdown Current I_{SD}. With reduced leakage current, overall system power efficiency and operation life are improved.

The device provides extremely low 60mΩ on resistance R_{ON}. Reverse current blocking and output short protection operates with the ultra-low 100nA I_Q. Reverse blocking is activated in both on and off state of the Load Switch.

Typical Application Circuits