

Features

- 200mΩ Typ. High-Side MOSFET
- 0.8A Current Limit ($V_{IN}=3.0V$)
- Small SOT-23-5L Package Minimizes Board Space
- Thermal Protection
- Low Quiescent Current: 50μA
- Wide Input Voltage Range: 1.8V ~ 5.5V

Applications

- Battery-Powered Equipment
- Motherboard USB Power Switch
- USB Device Power Switch
- Hot-Plug Power Supplies
- Battery-Charger Circuits

Description

The HX9004 is an integrated 200mΩ power switch for self-powered and bus-powered Universal Serial Bus (USB) applications. Its low quiescent supply current (50μA) and small package (SOT-23-5L) is particularly suitable in battery-powered portable equipment.

Several protection functions include soft start to limit inrush current during plug-in, current limiting at 0.8A ($V_{IN}=3.0V$), and thermal shutdown to protect damage under over current conditions.

Typical Application Circuit

