



## Features

- 85mΩ Typ. High-Side MOSFET
- 2.8A Current Limit ( $V_{IN}=5V$ )
- Low Quiescent Current: 90μA ( $V_{IN}=3V$ )
- Wide Input Voltage Range: 2V to 5.5V
- Minimizes Board Space
- Thermal Protection
- Small SOT-23-6L Package

## Applications

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

## Description

The HX9201A is an integrated 85mΩ power switch for self-powered and bus-powered Universal Serial Bus (USB) applications. Its low quiescent supply current (90μA) and small package (SOT-23-6L) is particularly suitable in battery-powered portable equipment.

Several protection functions include soft start to limit inrush current during plug-in, current limiting at 2.8A ( $V_{IN}=5V$ ) to meet USB power requirement, and thermal shutdown to protect damage under over current condition.