

## 150mΩ Power Distribution Switches

### ■ General Description

The PN9701 is an integrated 150mΩ power switch for self-powered and bus-powered Universal Series Bus (USB) applications. A built-in charge pump is used to drive the N-channel NMOSFET that is free of parasitic body diode to eliminate any reversed current flow across the switch when it is powered off. Its low quiescent supply current (23μA) and small package (SOT-23-5) is particularly suitable in battery-powered portable equipment.

Several protection functions include soft start to limit inrush current during plug-in, current limiting at 1000mA or 650mA, and thermal shutdown to protect damage under over current conditions.

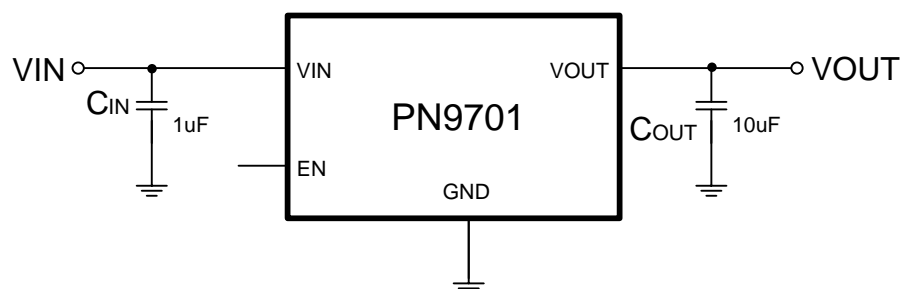
### ■ Features

- Wide Input Voltage Range: 2.2V ~ 6V
- 150mΩ (Typ. ) High-Side NMOSFET (SOT- 23-5)
- 650Ma/1000mA Current Limit
- Small SOT- 23-5 Package Minimizes Board Space
- Soft Start
- Thermal Protection
- Low 23 μA Supply Current

### ■ Applications

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

### ■ Typical Application Circuit

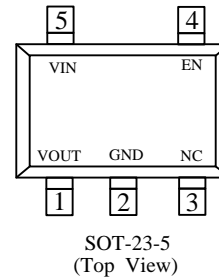


### ■ Package

- SOT-23-5

### ■ Pin Configuration

- Ordering information: PN9701AM



### ■ Product Name Description

