

General Description

SY9601 is a current-limiting IC integrating Type-C and BC1.2 protocols, with adjustable output limited current, PMOS switch with maximum limited current of 3A, D+/D- supporting BC1.2 protocol, which provides automatic identification of mobile phones such as iPhone and Samsung, and ensures maximum charging power. Type-C port output is provided for detecting CC connection before turning on the current limit switch and indicating the maximum output current capability. SY9601 is available in a ESOP8 or DFN10 package.

Applications

- ◆ Power bank, portable chargers, wall chargers, car chargers, etc.

Features

- ◆ Integrated PMOS switch with ultra-low impedance and 30mΩ conductor resistance, reverse output protection
- ◆ Linearly adjustable maximum output current via external resistor
- ◆ Ultra-low standby current: 70uA
- ◆ Type-C port output for detecting CC connection and indicating the maximum output current capability
- ◆ Automatic switching between multiple USB charging protocols
- ◆ Supports BC1.2 DCP and YD/T 1591-2009
- ◆ Supports Divider 3 charging protocol, supports Apple devices
- ◆ Applications for Samsung devices

Typical Application Circuit

