

Features

- Dual Channel Power Switch with Separate Current Limiting
- Adjustable Current Limit, 250mA to 2.8A (typ)
- Accurate 2.1A Min / 2.5A Max Current Limiting Setting
- Fast Over Current Response: 3.5us (typ)
- Low Ron Resistance per Channel: 40mΩ
- Input Voltage Range: 2.5V to 5.5V
- 5uA Maximum Shutdown Current
- Built-in Soft Start, UVLO, OCP and OTP
- Enable Low / High Active Optional
- TDFN10-3x3 Package
- Green Product (RoHS, Lead-Free, Halogen-Free Compliant)

Applications

- USB Ports / Hubs
- Digital TV
- Set-Top Boxes
- VOIP Phones

General Description

The GS7621 is a precision current limited dual channel power-distribution switches. This device is intended for applications where heavy capacitive loads and short-circuits are likely to be encountered. It offers a programmable current limit threshold between 250mA and 2.8A (typ) per channel via an external resistor. The power switch rising and falling times are controlled to minimize current surges during turn on / off.

Each channel of the GS7621 device limits the output current to a safe level by switching into a constant current mode when the output load exceeds the current limit threshold.

The $\overline{\text{FAULTx}}$ is open-drain output for each channel and independently asserts low during over current and over temperatures conditions.