3A Capable Slew Rate Controlled Load Switch With True Reverse Current Blocking.

Features

- **Input Voltage Range 1.5V to 5.5V**
- **Typical R_{ON}:**
  - **20mΩ at V_{IN}=5.5V**
  - **21mΩ at V_{IN}=4.5V**
  - **38mΩ at V_{IN}=1.8V**
  - **48mΩ at V_{IN}=1.5V**
- **Slew Rate/inrush Control with t_R = 3.3ms(typical)**
- **3A Continuous Operating Current**
- **Low Quiescent Current Less than 1μA**
- **True Reverse Current Blocking(TRCB)**
- **Logic CMOS IO meets JESD78 standard for GPIO interface and related power supply requirement.**
- **The package is WLCSP2X3 -6**

Applications

- **Cellular Phones**
- **Portable Navigation Devices(PND)**
- **Personal Media Players (PMP)**
- **Ultra Mobile PCs**
- **Portable Instrumentation**
- **Other Portable Applications**
- **PDAs**
- **Industrial and DataComm Equirment**

General Description

The G5197 advanced load-management switches target applications requiring a highly integrated solution. If disconnects loads powered from DC power rail (<6V) with stringent off-state current targets and high load capacitances (up to 200μF). Each switch consists of slew-rate controlled low-impedance MOSFET switch (23mΩ type) and other integrated analog features. The slew-rate controlled turn-on characteristic prevents inrush current and the resulting excessive voltage droop on power rails.

The G5197 has TRCB function blocking unwanted reverse current from V_{OUT} to VI_N during ON/OFF state.

These device have exceptionally low off state current drain (<2μA max) which facilitate compliance in very low stand by power applications. The input voltage range operates from 1.5V to 5.5V DC to support a wide range of applications in consumer. Optical, medical storage, portable and industrial device power management. Switch control is managed by a logic input (Active HIGH) capable of interfacing directly with low voltage control signal/GPIO with no extremely pull-down resistor required.

The device is packaged in WLCSP2X3 -6 pin.

Ordering Information

ORDER NUMBER	MARKING	SPEC	PACKAGE (Green)
G5197B21U	517 xx	No output discharge, Ron is 21mΩ at 4.5 V_{IN} , T_R=3.3ms, On pin activity is high.	WLCSP2X3-6

Note: B2: WLCSP2x3-6
1: Bonding Code
U: Tape & Reel

Pin Configuration