

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

### Features

- Input Voltage Range 1.5V to 5.5V
- Typical  $R_{ON}$ :
  - 20m $\Omega$  at  $V_{IN}=5.5V$
  - 21m $\Omega$  at  $V_{IN}=4.5V$
  - 38m $\Omega$  at  $V_{IN}=1.8V$
  - 48m $\Omega$  at  $V_{IN}=1.5V$
- Slew Rate/inrush Control with  $t_R = 3.3ms$ (typical)
- 3A Continuous Operating Current
- Low Quiescent Current Less than 1 $\mu A$
- 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 Equipment

### 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 200 $\mu F$ ). Each switch consists of slew-rate controlled low-impedance MOSFET switch (23m $\Omega$  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  $V_{IN}$  during ON/OFF state.

These device have exceptionally low off state current drain (<2 $\mu A$  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 21m $\Omega$ 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

