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 Earment

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 $V_IN$ 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

<table>
<thead>
<tr>
<th>ORDER NUMBER</th>
<th>MARKING</th>
<th>SPEC</th>
<th>PACKAGE (Green)</th>
</tr>
</thead>
<tbody>
<tr>
<td>G5197B21U</td>
<td>517xx</td>
<td>No output discharge, $R_{ON}$ is 21mΩ at 4.5 $V_IN$, $t_R=3.3ms$, On pin activity is high.</td>
<td>WLCSP2X3-6</td>
</tr>
</tbody>
</table>

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

Pin Configuration

```plaintext
6 Bump WLCSP

<table>
<thead>
<tr>
<th>EN</th>
<th>C2</th>
<th>C1</th>
<th>VIN</th>
<th>B2</th>
<th>B1</th>
<th>A2</th>
<th>A1</th>
<th>VOUT</th>
<th>VOUT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Top View WCSP2X3-6</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

6 Bump WLCSP

<table>
<thead>
<tr>
<th>EN</th>
<th>C1</th>
<th>C2</th>
<th>VIN</th>
<th>B1</th>
<th>B2</th>
<th>A1</th>
<th>A2</th>
<th>VOUT</th>
<th>VOUT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bottom View WCSP2X3-6</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
```