Ultra Small, Low Input Voltage, Low R_{ON}, Load Switch

Features

- **Low input voltage 1.0V to 3.6V**
- **Ultra low R_{ON}**
  - **R_{ON} =26mΩ at VIN=3.6V**
  - **R_{ON} =30mΩ at VIN=2.5V**
  - **R_{ON} =35mΩ at VIN=1.8V**
  - **R_{ON} =56mΩ at VIN=1.2V**
- **1A maximum continuous operating current.**
- **Ultra low quiescent current <1μA**
- **Ultra low sundown current <2.5μA**
- **Low Control Input Thresholds Enable Use of Low-Voltage Logic.**
- **Controlled Slew Rate to Avoid Inrush Currents**
- **Quick Output Discharge.**
- **1.0 mmX1.0 mm 4-pin, pin pitch 0.5mm ultra small CSP Package**
- **With Input Pin Pull Low resistance 250kΩ.**

General Description

The G5017 is ultra-small, low ON resistance (Ron) load switches with controlled turn on. The devices contain a P-channel MOSFET that operates over an input voltage range 1.0V to 3.6V. The switch is controlled by an on/off input (EN), which is capable of in interfacing directly with low-voltage control signals. In G5017 a 80Ω on-chip load resistor is added for output quick discharge when the switch is turned off.

G5017 is available in a space-saving 4-terminal WLCSP with 0.5mm pitch. The devices are characterized for operation over the free-air temperature range for -40°C to 80°C.

Applications

- **Cellular phones.**
- **Personal Digital Assistants (PDAs)**
- **GPS Devices**
- **MP3 Players**
- **Digital Cameras**
- **RF Modules**
- **Peripheral Ports**
- **Portable Instrumentation**

Ordering Information

ORDER NUMBER	MARKING	Ron at 3.6V	Slew rate	Discharge	Max output current	Enable	SPEC	PACKAGE (Green)
G5017B11U	50 7x	26mΩ	134μs	Yes	1A	Active High	Soft start=134μs	WLCSP2X2-4

Note: B1: WLCSP2X2-4
1: Bonding Code
U: Tape & Reel

Pin Configuration