

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

Features

- Low input voltage 1.0V to 3.6V
- Ultra low R_{ON}
 - $R_{ON} = 26m\Omega$ at $V_{IN}=3.6V$
 - $R_{ON} = 30m\Omega$ at $V_{IN}=2.5V$
 - $R_{ON} = 35m\Omega$ at $V_{IN}=1.8V$
 - $R_{ON} = 56m\Omega$ at $V_{IN}=1.2V$
- 1A maximum continuous operating current.
- Ultra low quiescent current $<1\mu A$
- Ultra low sundown current $<2.5\mu A$
- 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 250k Ω .

General Description

The G5017 is ultra-small, low ON resistance (R_{on}) 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 interfacing directly with low-voltage control signals. In G5017 a 80 Ω 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 $^{\circ}C$ to 80 $^{\circ}C$.

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	26m Ω	134 μs	Yes	1A	Active High	Soft start=134 μs	WLCSP2X2-4

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

Pin Configuration

