

# Slew Rate Controlled Load Switch

## Features

- 2.0V to 5.5V Input Voltage Range
- Very Low  $R_{DS(ON)}$ , Typically 80m. (5V)
- Typical Current Limited is 2.5A at  $V_{CC}=5V$
- Slew Rate Limited Turn-On Time 1.5ms (5V)
- Fast Shutdown Load Discharge
- TTL/CMOS Input Logic Level
- No Reverse Output Current
- 8 Pin TDFN Package

## Applications

- Cellular Telephones
- Digital Still Cameras
- Hot Swap Supplies
- Notebook Computers
- Personal Communication Devices
- Personal Digital Assistants (PDAs)

## General Description

The G5281 is a N-channel MOSFET power switch designed for high-side load-switching applications, and the device has a typical  $R_{DS(ON)}$  of 80m and the output current is limited to 2A. The G5281 has a slew rate limited turnon load switch and offers a shutdown load discharge circuit to rapidly turn off a load circuit when the switch is disabled.

The G5281 operates with an input voltage ranging from 2V to 5.5V. It is suitable for both 3V and 5V systems. The G5281 also features an under voltage lock out which turns the switch off when an input under-voltage condition exists. Input logic levels are TTL and 2.5V to 5V CMOS compatible. In shutdown mode, the supply current decreases to less than 1 $\mu$ A. The G5281 is available in a 8 pin TDFN package.

## Ordering Information

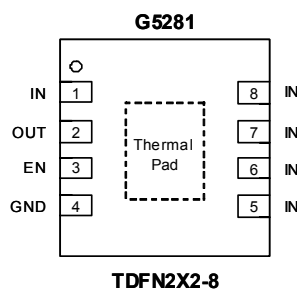
| ORDER NUMBER | MARKING | TEMP. RANGE   | PACKAGE (Pb free) |
|--------------|---------|---------------|-------------------|
| G5281RC1U    | 5281    | -40°C to 85°C | TDFN2X2-8         |

Note: RC: TDFN2X2-8

1: Bonding Code

U: Tape & Reel

## Pin Configuration



Note: Recommend connecting the Thermal Pad to the GND for excellent power dissipation.

## Typical Application Circuit

