

## Power Distribution Switch

### Features

- 70mΩ High-Side MOSFET
- Operating Range:2.7V to 5.5V
- 1mS Typical Rise Time
- Fast Overcurrent Response 1.5μs (TYP.)
- Under voltage Lockout
- 130μA Quiescent Supply Current
- 1μA Maximum Shutdown Supply Current
- No Reverse Current when Power Off
- Deglitched Open-Drain Over-Current Flag Output ( $\overline{OC}$ )
- Output Reverse-Voltage Protection
- SOT-23-5 Packages

### Applications

- High-Side Power Protection Switch
- USB Power Management
- USB Host and Self-Powered Bubs
- USB Bus-Powered Hubs
- Hot Plug-In Power Supplies
- Battery-Charger Circuits

### General Description

The G5250S is an integrated power switch for self-powered and bus-powered Universal Serial Bus (USB) applications.

Several Protection features include current limiting and thermal shutdown to prevent catastrophic switch failure caused by increasing power dissipation when continuous heavy loads or short circuit occurs. A built-in charge pump is used to drive the N-channel MOSFET that is free of parasitic body diode to eliminate any reversed current flow across the switch when it is powered off. When the output voltage is higher than input voltage, the power switch is turned off by internal output reverse-voltage comparator.

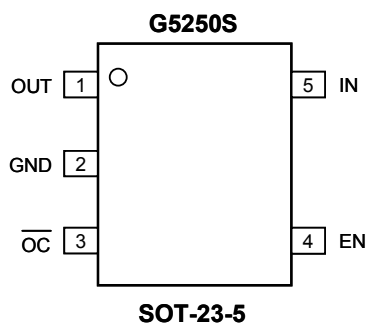
$\overline{OC}$  is open-drain output report over-current or over-temperature event and has typical 9ms deglitch timeout period. In addition,  $\overline{OC}$  also reports output reverse-voltage condition with typical 5ms deglitch timeout period.

### Ordering Information

ORDER NUMBER	MARKING	ENABLE	Current Limit	Output MOS $R_{DS(ON)}$	TEMP. RANGE	PACKAGE (Green)
G5250S1T11U	50S1x	Active High	1A	70mΩ	-40°C to +85°C	SOT-23-5

Note:T1: SOT-23-5  
1: Bonding Code  
U: Tape & Reel

### Pin Configuration



### Typical Application Circuit

