

High-Side Power Distribution Switch

Features

- 120mΩ High-Side MOSFET
- 2.5A of Current Limits with Foldback
- Operating Range: 2.7V to 5.5V
- 1.9ms Typical V_{OUT} Turn-On Rise Time
- Under voltage Lockout
- 65μA Quiescent Supply Current
- 1μA Maximum Standby Supply Current
- Active-High Enable Pin
- No Reverse Current when Power Off
- Shutdown Discharge Function at DSG Pin
- SOT-23-5 and ADFN1.5X1.5-6 Package Available

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 G5244 is an 120mΩ power switch for self-powered and bus-powered Universal Serial Bus (USB) applications.

Several Protection features such as current limiting with foldback, and thermal shutdown are included 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 makes it free of parasitic body diode to eliminate any reversed current flow across the switch when it is powered off. The G5244 has a shutdown discharge function when power switch is turned off. User could realize the shutdown discharge function by adding an external resistor between OUT PIN and DSG PIN.

Its low quiescent supply current and small package SOT-23-5 and ADFN1.5X1.5-6 is particularly suitable in battery-powered equipment, like PDA, mobile phone.

Ordering Information

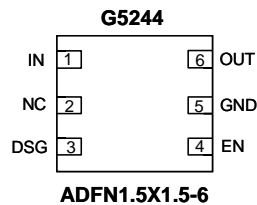
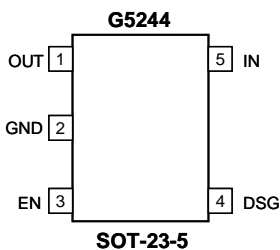
ORDER NUMBER	MARKING	TEMP. RANGE	PACKAGE (Green)
G5244T11U	5244x	-40°C to +85°C	SOT-23-5
G5244A31U	54 xx	-40°C to +85°C	ADFN1.5X1.5-6

Note: T1: SOT-23-5 A3: ADFN1.5X1.5-6

1: Bonding Code

U: Tape & Reel

Pin Configuration



Typical Application Circuit

