

Power Distribution Switch

Features

- 100mΩ High-Side MOSFET
- Available with 4 Versions of Current Limits with Foldback
- Operating Range: 2.7V to 5.5V
- 400μS Typical Rise Time
- Under voltage Lockout
- 65μA Quiescent Supply Current
- 1μA Maximum Shutdown Supply Current
- Logic Level Enable Pin, Available with Active-High or Active-Low Version
- No Reverse Current when Power Off
- Deglitched Open-Drain Over-Current Flag Output (OC)
- Output Shutdown Pull-low Resistor
- SOP-8, MSOP-8, TDFN3X3-8 Packages
- UL Approved #E232223
- Nemko IEC 60950-1 CB/CCA_scheme certification Report #67291

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

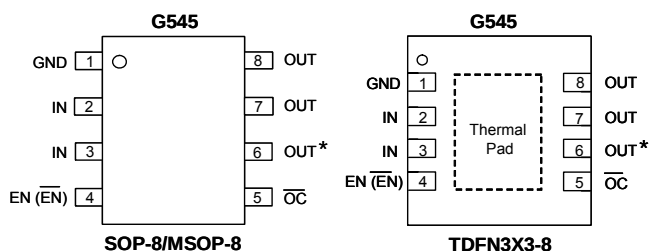
General Description

The G545 is an integrated 100mΩ power switch for self-powered and bus-powered Universal Serial Bus (USB) applications.

Several Protection features include current limiting with foldback, and thermal shutdown to prevent catastrophic switch failure caused by increasing power dissipation when continuous heavy loads or short circuit occurs. And 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.

OC is open-drain output report over-current or over-temperature event and has typical 9ms deglitch timeout period.

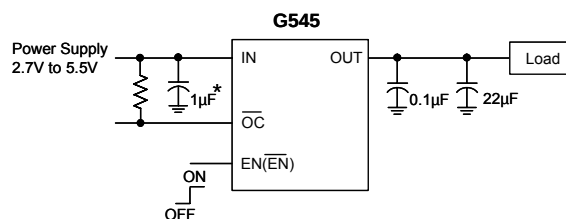
Pin Configuration



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

* Pin#6 should be considered as OUT when circuit design and PCB layout, but it is NC pin actually.

Typical Application Circuit



*: 1μF of input capacitor is enough in most application cases. If the PCB trace of power rail to IN is long, larger input capacitor is necessary.



UL Recognized Component