Features

- 4.5V to 5.5V Input Voltage Range
- Compliant to USB 3.0 Specifications
- Output Voltage Switch to 5VSB at S3/S4/S5
  200mA continuous Load Current
  400mΩ Typ. High-side NMOSFET
- Output Voltage Switch to 5VCC at S0/S1/S2
  1.2A continuous Load Current
  80mΩ Typ. High-side NMOSFET
- 100uA Quiescent Supply Current
- Less Than 1uA Shutdown Current
- 1.0ms Typical Rise Time and Fast Turn off
- Active-High Control Logic
- Under voltage Lockout
- PSOP-8 package
- Green Product (RoHS, Lead-Free, Halogen-Free Compliant)
- UL Approved: E360303
- TuV EN60950-1 Approved: R 50251456 0001
- CB IEC60950-1 Approved: JPTUV-050534

Applications

- Notebook
- Desktop PCs
- USB Ports
- ACPI Power Distribution
- Hot-Plug Power Supplies
- Battery Chargers

General Description

The GS7607 is a current limited power distribution switch. This device is intended for applications where heavy capacitive loads or short-circuits are likely to be encountered. It switches output voltage to 5VCC with 80mΩ switch and 1.2A capacity; 5VSB with 400mΩ switch and 200mA capacity.

Optimal switch logic according to S3# and 5VCC status ensures seamless output voltage transition. Several Protection features include soft start function to limit inrush current, current limiting and thermal shutdown to prevent catastrophic switch failure caused by increasing power dissipation when continuous heavy loads or short circuit occurs. UVLO ensures that the device remains off unless there is a valid supply voltage present.