

Features

- Input Voltage (VCNTL): Supports 3.3V Rail and 5V Rail
- VIN Voltage Range: 1.0V to VCNTL
- Dual VREF Inputs Selection for Output Voltage
- Low Output Voltage Offset
- Current Limit Protection
- On-Chip Thermal Protection
- Built-in Soft Start, UVLO
- Stable with Output Ceramic Capacitor
- Low External Components Count
- PSOP-8 Package
- Green Product (RoHS, Lead-Free, Halogen-Free Compliant)

Applications

- Mainboard for Chipset
- Notebook/Desktop/Server
- IPC & Backup Power Application
- Telecom/Datacom, GSM Base Station, LCD-TV/PDP-TV, Copier/Printer, Set-Top Box

General Description

The GS7907 is a high performance LDO regulator which supports dual reference inputs selection for single output regulation. It is specifically designed for the quick response, low noise and low external component count systems where space is a key application parameter.

The output termination voltage can be tightly regulated to track two different reference inputs. Users can control the output by switching the level of VREFSEL.

In addition, the GS7907 can capable of sinking/sourcing up to peak 2A output current. Also, the GS7907 includes current limit and thermal shutdown protections to prevent the regulator from damage. The built-in soft start minimizes stress on the input power source by reduction the capacitive inrush current on start-up.

The GS7907 is available in the thermally efficient PSOP-8 package.