

2.6W Stereo Audio Amplifier

Features

- Depop Circuitry Integrated
- Output Power at 1% THD+N, VDD=5V
 - 2.0W/CH (typical) into a 4Ω Load
 - 1.3W/CH (typical) into a 8Ω Load
- Output Power at 10% THD+N, VDD=5V
 - 2.6W/CH (typical) into a 4Ω Load
 - 1.6W/CH (typical) into a 8Ω Load
- Maximum Output Power Clamping Circuitry Integrated
- Bridge-Tied Load (BTL)
- Stereo Input MUX
- Mute and Shutdown Control Available
- Surface-Mount Power Package
 - 24-Pin TSSOP-P & 24-Pin QFN Available

Applications

- Stereo Power Amplifiers for Notebooks or Desktop Computers
- Multimedia Monitors
- Stereo Power Amplifiers for Portable Audio Systems

General Description

The G1432 is a stereo audio power amplifier in 24pin TSSOP thermal pad package or 24pin QFN package. It can drive 2.0W continuous RMS power into 4Ω load per channel in Bridge-Tied Load (BTL) mode at 5V supply voltage. Its THD is smaller than 1% under the above operation condition. The G1432 can mute the output when Mute is activated. For the low current consumption applications, the SHDN mode is supported to disable the G1432 when it is idle. The current consumption can be further reduced to below 5μA.

The G1432 also supports two input paths, that means two different gain loops can be set in the same PCB and choosing either one by setting $\overline{IN1/IN2}$ pin. It enhances the hardware designing flexibility. The G1432 also supports an extra function -- the maximum output power clamping function to protect the speakers from burned-out.

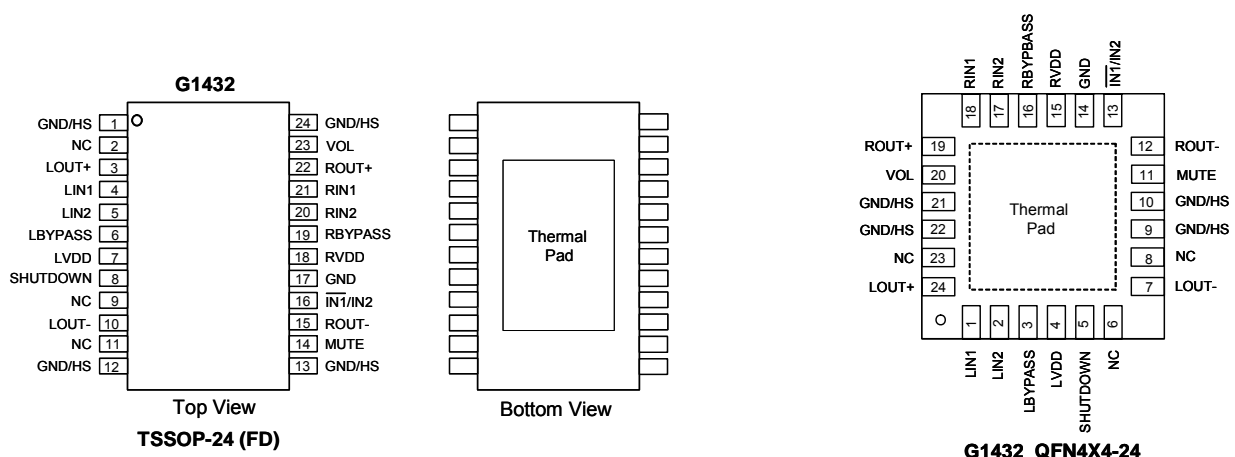
Ordering Information

ORDER NUMBER	MARKING	TEMP. RANGE	PACKAGE (Pb free)
G1432F3U	G1432	-40°C to +85°C	TSSOP-24 (FD)
G1432Q5U	G1432	-40°C to +85°C	QFN4X4-24

Note: F3:TSSOP-24 (FD) Q5:QFN4X4-24

U: Tape & Reel

Pin Configuration



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

2.6W Stereo Audio Amplifier

Features

- Depop Circuitry Integrated
- Output Power at 1% THD+N, VDD=5V
 - 2.0W/CH (typical) into a 4Ω Load
 - 1.3W/CH (typical) into a 8Ω Load
- Output Power at 10% THD+N, VDD=5V
 - 2.6W/CH (typical) into a 4Ω Load
 - 1.6W/CH (typical) into a 8Ω Load
- Maximum Output Power Clamping Circuitry Integrated
- Bridge-Tied Load (BTL)
- Stereo Input MUX
- Mute and Shutdown Control Available
- Surface-Mount Power Package
24-Pin TSSOP-P & 24-Pin QFN Available

Applications

- Stereo Power Amplifiers for Notebooks or Desktop Computers
- Multimedia Monitors
- Stereo Power Amplifiers for Portable Audio Systems

General Description

The G1432L is a stereo audio power amplifier in 24pin TSSOP thermal pad package or 24pin QFN package. It can drive 2.0W continuous RMS power into 4Ω load per channel in Bridge-Tied Load (BTL) mode at 5V supply voltage. Its THD is smaller than 1% under the above operation condition. The G1432L can mute the output when Mute is activated. For the low current consumption applications, the SHDN mode is supported to disable the G1432L when it is idle. The current consumption can be further reduced to below 5μA when SHUTDOWN is held low.

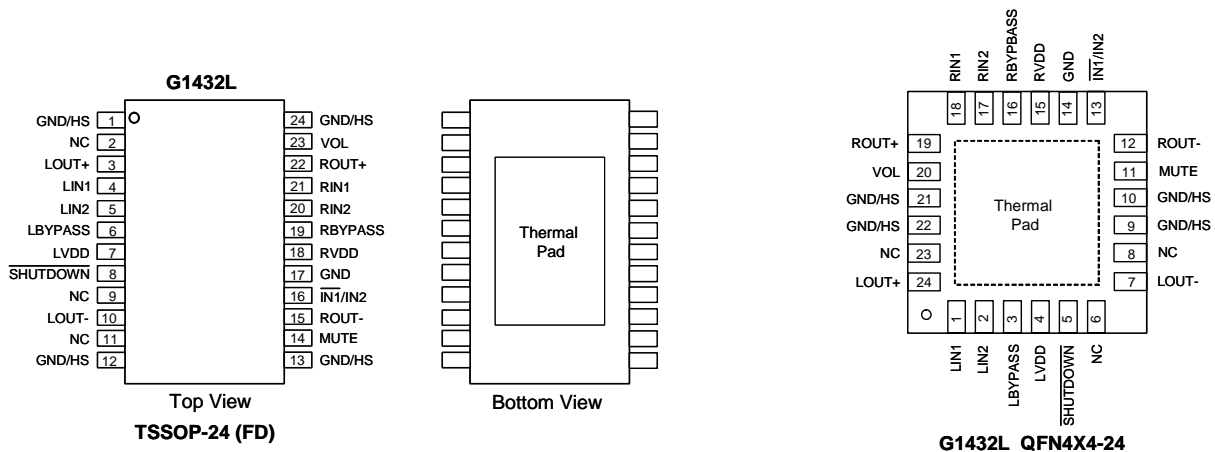
The G1432L also supports two input paths, that means two different gain loops can be set in the same PCB and choosing either one by setting IN1/IN2 pin. It enhances the hardware designing flexibility. The G1432L also supports an extra function -- the maximum output power clamping function to protect the speakers from burned-out.

Ordering Information

ORDER NUMBER	MARKING	TEMP. RANGE	PACKAGE (Pb free)	REMARK
G1432LF31U	G1432L	-40°C to +85°C	TSSOP-24 (FD)	
G1432LQ51U	1432L	-40°C to +85°C	QFN4X4-24	OBSOLETE

Note: F3:TSSOP-24 (FD) Q5:QFN4X4-24
1: Bonding Code
U: Tape & Reel

Pin Configuration



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