

15-W STEREO CLASS-D AUDIO POWER AMPLIFIER

FEATURES

- 10-W/Ch Into an 8-Ω Load From a 24-V Supply
- 15-W/Ch into a 4-Ω Load from a 22-V Supply
- 30-W/Ch into a 8-Ω Load from a 22-V Supply
- Operates From 10 V to 26 V
- Can Run From +24 V LCD Backlight Supply
- Efficient Class-D Operation Eliminates Need for Heat Sinks
- Four Selectable, Fixed-Gain Settings
- Internal Oscillator (No External Components Required)
- Single-Ended Analog Inputs
- Thermal and Short-Circuit Protection With Auto Recovery
- Space-Saving Surface Mount 24-Pin TSSOP Package
- Advanced Power-Off Pop Reduction

APPLICATIONS

- Flat Panel Televisions
- DLP® TVs
- CRT TVs
- Powered Speakers

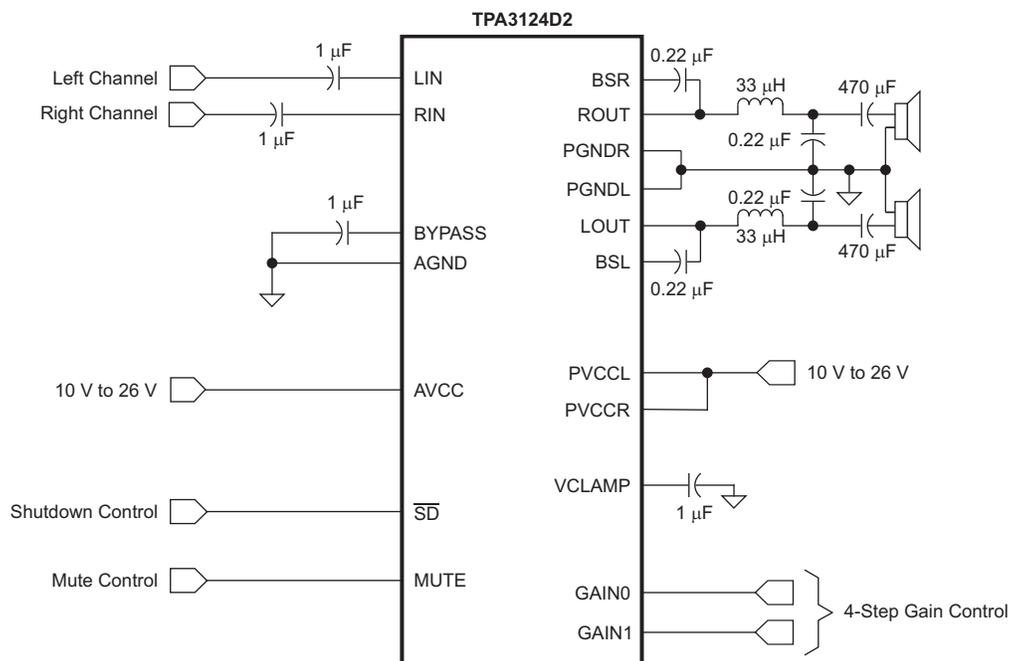
DESCRIPTION

The TPA3124D2 is a 15-W (per channel), efficient, class-D audio power amplifier for driving stereo speakers in a single-ended configuration; or, a mono speaker in a bridge-tied-load configuration. The TPA3124D2 can drive stereo speakers as low as 4 Ω. The efficiency of the TPA3124D2 eliminates the need for an external heat sink when playing music.

The gain of the amplifier is controlled by two gain select pins. The gain selections are 20, 26, 32, and 36 dB.

The patented start-up and shutdown sequences minimize pop noise in the speakers without additional circuitry.

SIMPLIFIED APPLICATION CIRCUIT



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