



TDA2075

STEREO 75W (8Ω) CLASS-T DIGITAL AUDIO AMPLIFIER DRIVER USING DIGITAL POWER PROCESSING™ TECHNOLOGY

ADVANCED INFORMATION

Revision 2.1 – December 2004

GENERAL DESCRIPTION

The TDA2075 is a two-channel, 75W (8Ω) per channel Amplifier Driver that uses Tripath's proprietary Digital Power Processing (DPP™) technology. The TDA2075 offers higher integration over previous Tripath amplifiers driver chipsets while providing exceptional audio performance for real world applications. Class-T amplifiers offer both the audio fidelity of Class-AB and the power efficiency of Class-D amplifiers.

Applications

- Powered DVD Players
- Audio/Video Amplifiers & Receivers
- Multimedia Speakers

Benefits

- Reduced system cost with smaller/less expensive power supply and heat sink
- Signal fidelity equal to high quality Class-AB amplifiers
- High dynamic range compatible with digital media such as CD and DVD

Features

- Class-T architecture with proprietary DPP
- "Audiophile" Sound Quality
 - THD+N 0.015% at 50W, 8Ω, 1kHz
- High Efficiency
 - 91% at +/-40V and 120W, 8Ω
- Supports wide range of output power levels
 - Up to 120W/channel (6Ω), single-ended outputs, @ +/- 40V with 1% THD+N
- Full Audio Bandwidth, 20Hz to 20kHz
- Output over-current protection
- Over- and under-voltage protection
- Over-temperature protection
- 48-Pin LQFP Package
- Complete Amplifier Evaluation Board available

Typical Performance for TDA2075

