

## **TDA2075**

# STEREO 75W (8 $\Omega$ ) CLASS-T DIGITAL AUDIO AMPLIFIER DRIVER USING DIGITAL POWER PROCESSING THE TECHNOLOGY

**ADVANCED INFORMATION** 

Revision 2.1 - December 2004

#### **GENERAL DESCRIPTION**

The TDA2075 is a two-channel, 75W ( $8\Omega$ ) per channel Amplifier Driver that uses Tripath's proprietary Digital Power Processing (DPP<sup>TM</sup>) 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

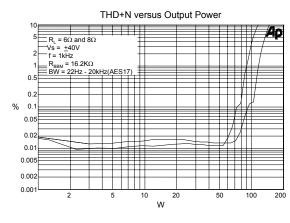
## **Benefits**

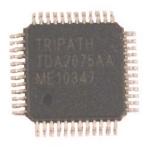
- Reduced system cost with smaller/less expensive power supply and heat sink
- Signal fidelity equal to high quality Class-AB amplifiers
- High dynamic range compatible with digital media such as CD and DVD

### **Features**

- Class-T architecture with proprietary DPP
- "Audiophile" Sound Quality
  - > THD+N 0.015% at 50W, 8Ω, 1kHz
- > High Efficiency
  - $\triangleright$  91% at +/-40V and 120W, 8 $\Omega$
- 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





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