



TPD2075

DUAL COMPLEMENTARY MOSFET DRIVER

ADVANCED INFORMATION

Revision 2.0 – December 2004

GENERAL DESCRIPTION

The TPD2075 is a high-speed dual complimentary MOSFET driver. The TPD2075 converts CMOS or TTL inputs to gate signals suitable for driving a complimentary pair of MOSFETs in a dual half-bridge or single full-bridge configuration. When three TPD2075's are mated with a TCD6000, the chipset is a six-channel, digital input, 75W (8Ω) per channel Amplifier. This stereo MOSFET driver, when paired with a Class T controller, offers both the audio fidelity of Class-AB and the power efficiency of Class-D amplifiers.

Applications

- Switch-Mode Audio Power Amplifiers
- Complementary MOSFET driver
- Switch-Mode Power Supplies

Benefits

- Reduced system cost with smaller/less expensive power supply and heat sink
- Signal fidelity equal to high quality Class-AB amplifiers

Features

- Programmable Break-Before-Make
- Low Power Consumption
- Output over-current protection
- Over-temperature protection
- 24-Pin SSOP Package

