

### **TPD2125**

# **DUAL COMPLEMENTARY MOSFET DRIVER**

**ADVANCED INFORMATION** 

Revision 2.0 - December 2004

# **GENERAL DESCRIPTION**

The TPD2125 is a high-speed dual complimentary MOSFET driver. The TPD2125 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 TPD2125's are mated with a TCD6000, the chipset is a six-channel, digital input, 75W ( $8\Omega$ ) 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 TSSOP-EP Package



