

## HIGH-POWER & LOW-VOLTAGE AUDIO POWER AMPLIFIER

### **■ GENERAL DESCRIPTION**

The **NJM2770** is a high-power and low-voltage audio power amplifier with standby function. No external coupling capacitors required because of the differential output type. Two external resistors adjust the closed loop gain. The output power is 250mW typical at 3V-supply 8ohm-load, and 400mW typical at 4.5v-supply 16ohm-load. The standby current is only 0.1µA typical.

The package of the **NJM2770** is MSOP8(VSP8)\*, and the **NJM2770** is suitable for PCS, codeless telephone, speaker amplifier for hands free system, and especially cellular phone because of low operating current, low standby current, and high power output.

#### **■ PACKAGE OUTLINE**

#### **■ FEATURS**

Operating Voltage +2-+4.5V

• Operating Current 2.0mA typ.,at V<sup>+</sup>=3V

• Low Power-Down Current 0.1μA typ

High Power Otput 250mW typ. at V<sup>+</sup>=3V,R<sub>L</sub>=8Ω

400mW typ.  $V^{+}=4.5V,R_{L}=16\Omega$ 

Gain Range at Voice Band Gv=0-43dB
Load Impedance R<sub>I</sub>=4-200Ω

• Thermal Shut Down Function

Bipolar Technology

Package Outline
MSOP8 (VSP8)\* MSOP8 (TVSP8)\*\*

\*MEET JEDEC MO-187-DA \*\*MEET JEDEC MO-187-DA / THIN TYPE

# **■ PIN CONFIGURATION & BLOCK DIAGRAM**