

High Output Current, Single Supply, Rail-to-Rail Output Dual CMOS Operational Amplifier

□ GENERAL DESCRIPTION

The NJU7036 is a Rail-to-Rail Output operational amplifier of single power supply operation.

It has the characteristic of high power output current and is suitable for driving heavy loads such as a small motor, LED, and speakers.

It has up to 0.15 V saturation voltages at an output current of 250mA.

Therefore it can reduce the electric power loss in IC and contribute to the design of low power consumption.

Moreover, micro leadless package (PCSP20-E3) is available for it, so that it can also contribute to the miniaturization of the equipment.

□ FEATURES

- Rail-to-Rail Output $V_o=4.7V_{pp}$ min. at $V_{DD}=5V, I_o=250mA$
- Single Supply
- Operating Voltage $V_{opr}=2.7V$ to $5.5V$
- Package Outline PCSP20-E3
- CMOS Process
- Thermal Shutdown Circuit
- Current Limit Circuit

□ PACKAGE OUTLINE

□ APPLICATION

- Motor Drivers , Audio Amplifiers , LED Drivers , etc.

□ PIN CONFIGURATION (Top View)

NJU7036SE3

VDD terminal, VSS terminal and OUTPUT terminal use two or more pins respectively and are lowering terminal resistance.

You shall connect each two pins (VDD, VSS and OUTPUT) with the same electric potential.

When only one pin is used, the internal terminal resistance becomes high and the maximum output voltage declines.