



LND-OP28 Dual 5A, 44V, Up to 220W Dual Speaker Drivers

GENERAL DESCRIPTION

The LND-OP28 are dual 5A, 44V, power operational amplifiers on a shared substrate. Putting two power op amps on one die results in an extremely cost effective solution for applications requiring multiple amplifiers per board or bridge mode configurations such as multiple diaphragm audio speakers.

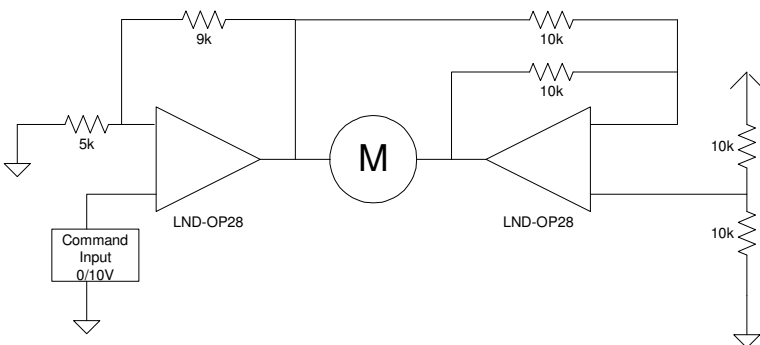
The wide common mode input range includes the negative rail, facilitating single supply applications. It is possible to utilize a “ground based” input driving a single supply amplifier with ground acting as the “second” or “bottom” supply of the amplifier.

The output stages are also well protected. They include internal current limit circuits. The inputs are high impedance, with low offset voltage, with extremely low offset currents.

The LND-OP28 is available as a bare die for hybrid manufacturing or in wafer form, as well as in line SIP-12 and TO-3-8 packages. Linear Dimensions can offer various custom package solutions if desired, please call for more information.

LND-OP28 is rated to a junction temperature of $T_j = -40$ to 150°C .

APPLICATIONS EXAMPLE



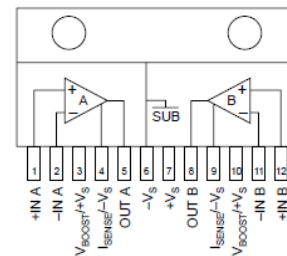
FEATURES

- Dual Up to 220W Audio Drivers
- Quality Bipolar Audio Signal Driver
- Simple 5A, 44V, Opamp Configuration
- High Impedance FET Inputs
- Wide Common Mode Range
 - Includes Negative Supply
- Wide Supply Voltage Range
 - Single Supply +5V to +44V
 - Split Supply: +/-2.5 to +/-22V
- High Efficiency - $|V_s - 2.2V|$ at 2.5A typ
- High Output Current – 5A
- Internal Current Limit
- Low Distortion

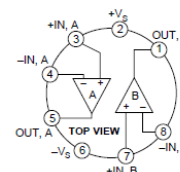
APPLICATIONS

- Half & Full Bridge Motor Drivers
- LED Drivers
- Audio Power Amplifiers
 - Stereo – 18W RMS per channel
 - Bridge – 36W RMS per dual
- Ideal for Single Supply Systems
 - 5V – Peripherals
 - 12V – Automotive (with load dump)
 - 28V - Avionic

PACKAGE



SIP, 12 pin



TO-3, 8 pin