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Low Power Quad Operational Amplifier

DATA BRIEF

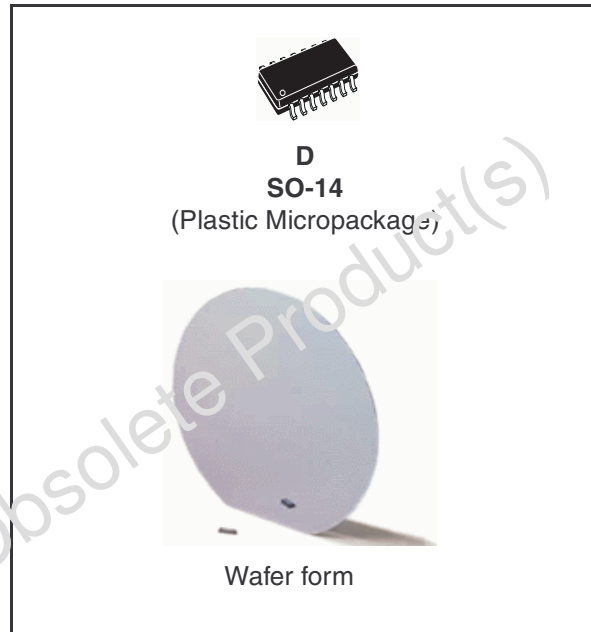
- Wide gain bandwidth: 1.3MHz
- Input common-mode voltage range includes ground
- Large voltage gain: 100dB
- Very low supply current/ampli: 375µA
- Low input bias current: 20nA
- Low input offset current:s 2nA
- Wide power supply range:
Single supply: +3V to +30V
Dual supplies: ±1.5V to ±15V
- Internal ESD protection: 250V HBM pin to pin mode, 150V MM

Description

This circuit consists of four independent, high-gain, internally frequency-compensated amplifiers, which were designed specifically for automotive and industrial control system. It operates from a single power supply over a wide range of voltages. The low-power supply drain is independent of the magnitude of the power supply voltage.

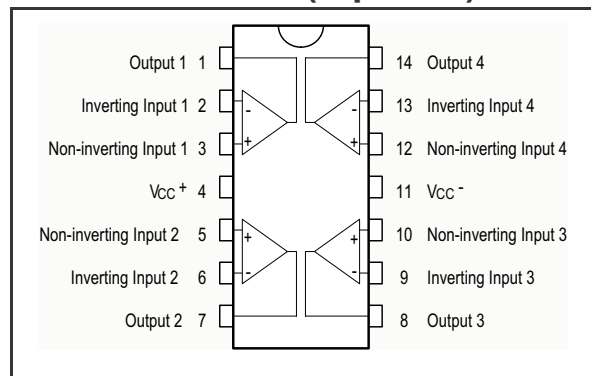
Application areas include transducer amplifiers, DC gain blocks and all the conventional op-amp circuits which now can be more easily implemented in single power supply systems. For example, these circuits can be directly supplied off the standard +5V used in logic systems and will easily provide the required interface electronics without requiring any additional power supply.

In the linear mode, the input common-mode voltage range includes ground and the output



voltage can also swing to ground, even though it is operated from only a single power supply voltage.

Pin Connection (top view)



Order Codes

Part Number	Temperature Range	Package	Packaging	Marking
JLM2902H	-40°C, +150°C	Wafer		
LM2902HD/HDT		SO-14	Tube or Tape & Reel	2902H
LM2902HYD/HYDT		SO-14 (automotive grade level)	Tube or Tape & Reel	2902HY

1 Revision History

Date	Revision	Changes
March 2005	1	First release of databrief.
July 2005	2	PPAP references inserted in the datasheet see <i>Table : Order Codes on page 1.</i>

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