ADVANCE INFORMATION

LM6132 Dual and LM6134 Quad High Speed/Low Power 7 MHz Rail-to-Rail I/O Operational Amplifiers

General Description

Using patent pending circuit topologies, the LM6132/34 provides new levels of speed vs. power performance in applications where low voltage supplies or power limitations previously made compromise necessary. With only 550 μ A/amp supply current, the 7 MHz bandwidth of this device supports new portable applications where higher power devices unacceptably drain battery life.

In addition, the LM6132/34 can be driven by voltages that exceed both power supply rails, thus eliminating concerns over exceeding the common-mode voltage range. The rail-to-rail output swing capability provides the maximum possible dynamic range at the output. This is particularly important when operating on low supply voltages. The LM6132/34 can also drive large capacitive loads without oscillating.

Operating on supplies of 1.8 to over 24 volts, the LM6132/34 is excellent for a very wide range of applications, from battery operated systems with large bandwidth requirements to high speed instrumentation.

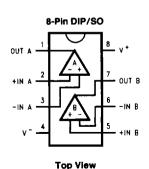
Features (For 5V Supply)

- Rail-to-rail input CMVR -0.25V to 5.25V (Max/Min)
- Rail-to-rail output swing 0.01V to 4.99V (Max/Min)
- Wide gain-bandwidth at 50 KHz 7 MHz (Typ)
- Slew rate 12 V/µs (Typ)
- Low supply current 550 µA/amp (Typ)
- Wide supply range 1.8V to 24V CMRR 107 dB (Typ)
- Gain 108 dB (Typ) with R_L = 10K
- PSRR 87 dB (Typ)

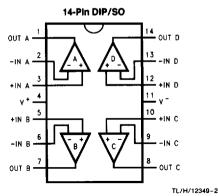
Applications

- Battery operated instrumentation
- 5V instrumentation
- Portable scanners
- Wireless communications

Connection Diagrams



TL/H/12349-1



Top View

Ordering Information

Package	Temperature Range Industrial — 40°C to +85°C	NSC Drawing
8-Pin Small Outline	LM6132AIM, LM6132BIM	MOBA
14-Pin Molded DIP	LM6134AIN, LM6134BIN	N14A
14-Pin Small Outline	LM6134AIM, LM6134BIM	M14A