## **ADVANCE INFORMATION**



## LM7121

# Tiny Very High Speed Low Power Voltage Feedback **Amplifier**

# **General Description**

The LM7121 is a high performance operational amplifier which addresses the increasing AC performance needs of video and imaging applications. Its tiny size and low power make it ideal for portable applications.

The LM7121 can operate over a wide dynamic range of supply voltages, from  $\pm 15V$  to  $\pm 5V$ . It offers an excellent speed-power product delivering 1000V/µs and 200 MHz unity gain stability. Another key feature of this operational amplifier is stability while driving unlimited capacitive loads.

Due to its Tiny S0T23-5 package, the LM7121 is ideal for designs where space and weight are the critical parameters. The benefits of the tiny package are evident in small portable electronic devices, such as cameras, and PC video cards. Tiny amplifiers are so small that they can be placed anywhere on a board close to the signal source or near the input to an A/D converter.

### **Features** (Typical unless otherwise noted)

- Easy to use Voltage Feedback Topology
- Stable with unlimited capacitive loads
- Tiny SOT23-5 package typical circuit layout takes half the space of SO-8 designs
- Unity Gain Frequency

200 MHz

Slew Rate

1000V/us ±5V and ±15V

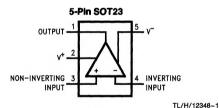
■ Characterized for Supply Voltages

5 m4

■ Low Supply Current

- **Applications** ■ Scanners, Color Fax, Digital copier
- Portable Video Equipment
- Cable Drivers
- Digital Cameras
- ADC/DAC Buffers

# Connection Diagram



**Top View** 

# 8-Pin DIP/SO-8 INVERTING INPUT NON-INVERTING OUTPUT INPUT TL/H/12348-2 Top View

# **Ordering Information**

Package	Temperature Range Industrial, −40°C to +85°C	NSC Drawing Number	Transport Media
8-Pin Molded DIP	LM7121AIN, LM7121BIN	N08E	Rails
8-Pin Small Outline	LM7121AIM, LM7121BIM	M08A	Rails
	LM7121AIMX, LM7121BIMX		Tape and Reel
5-Pin SOT 23-5	LM7121AIM5, LM7121BIM5	MA05A	Rails
	LM7121AIM5X, LM7121BIM5X		Tape and Reel