800 V/µs

±300 mA

50 MHz

5 ΜΩ

ADVANCED INFORMATION

LM6121/LM6221/LM6321 High Speed Buffer

General Description

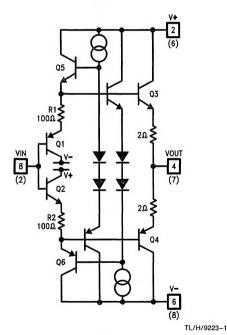
The LM6121 family of high speed unity gain buffers slew at 800 V/ μ s and have a small signal bandwidth of 50 MHz while driving a 50 Ω load. These buffers can deliver \pm 300 mA, and do not oscillate while driving large capacitive loads. The LM6121 features performance which is superior to the LH0002 with the additional features of current limit and thermal shutdown.

These buffers are built with National's new VIPTM (Vertically Integrated PNP) process which provides fast PNP transistors that are true compliments to the already fast NPN devices. This advanced junction-isolated process delivers high speed performance without the need for complex and expensive dielectric isolation.

Features

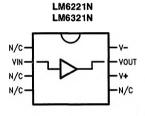
- High Slew Rate (into 50Ω)
- Wide Bandwidth (into 50Ω)
- Peak Output Current
- High Input Impedance
- LH0002H pin compatible■ No oscillations with Capacitive loads
- 5V to ±16V operation
- Current and Thermal Limiting
- Slew Rate 100% tested

Simplified Schematic

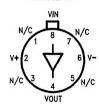


Numbers in () are for 8 pin N DIP

Pin Configurations



TL/H/9223-2



LM6121H

TL/H/9223-3

Order Number LM6121H, LM6221N or LM6321N See NS Package Number H08A or N08E