

LF147/LF347 Wide Bandwidth Quad JFET Input Operational Amplifiers

 Check for Samples: [LF147](#), [LF347-N](#)

FEATURES

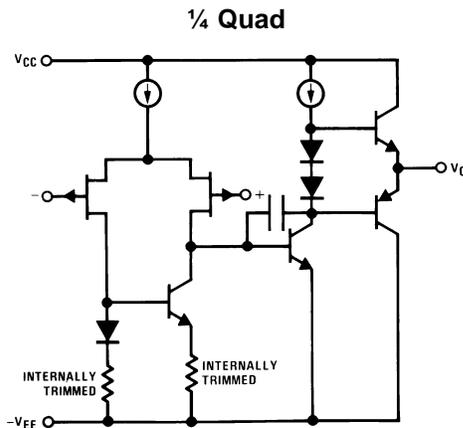
- Internally Trimmed Offset Voltage: 5 mV max
- Low Input Bias Current: 50 pA
- Low Input Noise Current: 0.01 pA/√Hz
- Wide Gain Bandwidth: 4 MHz
- High Slew Rate: 13 V/μs
- Low Supply Current: 7.2 mA
- High Input Impedance: $10^{12}\Omega$
- Low Total Harmonic Distortion: $\leq 0.02\%$
- Low 1/f Noise Corner: 50 Hz
- Fast Settling Time to 0.01%: 2 μs

DESCRIPTION

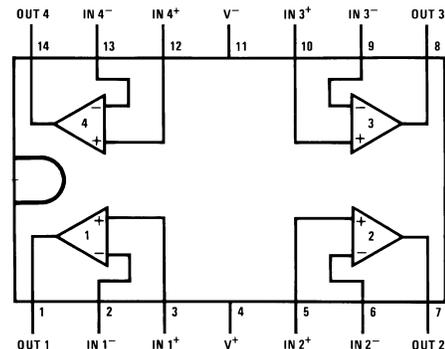
The LF147 is a low cost, high speed quad JFET input operational amplifier with an internally trimmed input offset voltage (BI-FET II™ technology). The device requires a low supply current and yet maintains a large gain bandwidth product and a fast slew rate. In addition, well matched high voltage JFET input devices provide very low input bias and offset currents. The LF147 is pin compatible with the standard LM148. This feature allows designers to immediately upgrade the overall performance of existing LF148 and LM124 designs.

The LF147 may be used in applications such as high speed integrators, fast D/A converters, sample-and-hold circuits and many other circuits requiring low input offset voltage, low input bias current, high input impedance, high slew rate and wide bandwidth. The device has low noise and offset voltage drift.

Simplified Schematic



Connection Diagram



LF147 available as per JM38510/11906.

**Figure 1. 14-Pin PDIP / CDIP / SOIC
Top View
See Package Number J0014A, D0014A or
NFF0014A**



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