

600MHz, Very High Slew Rate Operational Amplifier

November 1996

Features

- Low Supply Current 13mA
- Very High Slew Rate 625V/ μ s
- Open Loop Gain 25kV/V
- Wide Gain-Bandwidth ($A_V \geq 10$) 600MHz
- Full Power Bandwidth 10MHz
- Low Offset Voltage 0.6mV
- Differential Gain/Phase 0.03%/0.03 Degrees
- Enhanced Replacement for EL2039

Applications

- Pulse and Video Amplifiers
- Wideband Amplifiers
- High Speed Sample-Hold Circuits
- RF Oscillators

Description

The HA-2839 is a wideband, very high slew rate, operational amplifier featuring superior speed and bandwidth characteristics. Bipolar construction, coupled with dielectric isolation, delivers outstanding performance in circuits with a closed loop gain of 10 or greater.

A 625V/ μ s slew rate and a 600MHz gain bandwidth product ensure high performance in video and RF amplifier designs. Differential gain and phase are a low 0.03% and 0.03 degrees respectively, making the HA-2839 ideal for video applications. A full $\pm 10V$ output swing, high open loop gain, and outstanding AC parameters, make the HA-2839 an excellent choice for high speed Data Acquisition Systems.

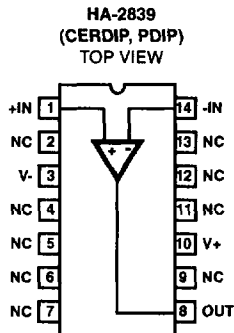
The HA-2839 is available in commercial and industrial temperature ranges, and a choice of packages. For military grade product, refer to the HA-2839/883 data sheet.

Ordering Information

PART NUMBER	TEMP. RANGE ($^{\circ}C$)	PACKAGE	PKG. NO.
HA1-2839-5	0 to 75	14 Ld CERDIP	F14.3
HA3-2839-5	0 to 75	14 Ld PDIP	E14.3
HA3-2839-9	-40 to 85	14 Ld PDIP	E14.3

3
OPERATIONAL
AMPLIFIERS

Pinout



NOTE: No Connection (NC) pins may be tied to a ground plane for better isolation and heat dissipation.