

## 600MHz, Very High Slew Rate Operational Amplifier

November 1996

### Features

- Low Supply Current ..... 13mA
- Very High Slew Rate ..... 625V/ $\mu$ 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/ $\mu$ 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.

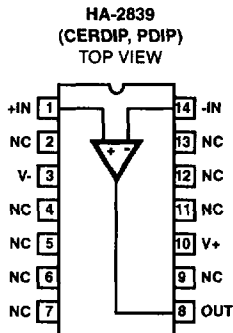
The HA-2839 is available in commercial and industrial temperature ranges, and a choice of packages. For military grade product, refer to the HA-2839/883 data sheet.

### 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

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OPERATIONAL AMPLIFIERS

### Pinout



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