

**NOT RECOMMENDED FOR NEW DESIGNS**  
 SEE HA-5340/883  
 or contact our Technical Support Center at  
 1-888-INTERSIL or www.intersil.com/tsc

**Features**

- This Circuit is Processed in Accordance to MIL-STD-883 and is Fully Conformant Under the Provisions of Paragraph 1.2.1.
- Fast Acquisition to 0.01% . . . . . 70ns (Max)
- Low Offset Error . . . . . ±2mV (Max)
- Low Pedestal Error . . . . . ±8mV (Max)
- Low Droop Rate . . . . . 2µV/µs (Max)
- Wide Unity Gain Bandwidth . . . . . 40MHz (Typ)
- Low Power Dissipation per Amp . . . . . 220mW (Max)
- Total Harmonic Distortion (Hold Mode) . . -72dBc (Typ)  
 (V<sub>IN</sub> = 5V<sub>P-P</sub> at 1MHz)
- Fully Differential Inputs
- On Board Hold Capacitor

**Applications**

- Synchronous Sampling
- Wide Bandwidth A/D Conversion
- Deglitching
- Peak Detection
- High Speed DC Restore

**Description**

The HA5352/883 is a fast acquisition, wide bandwidth Dual Sample and Hold amplifier built with the Intersil HBC-10 BiCMOS process. This Sample and Hold amplifier offers the combination of features; fast acquisition time (70ns to 0.01%), excellent DC precision and extremely low power dissipation, making it ideal for use in multi-channel systems that require low power.

The HA5352/883 comes in an open loop configuration with fully differential inputs providing flexibility for user defined feedback. In unity gain the HA5352/883 is completely self-contained and requires no external components. The on-board 15pF hold capacitors are completely isolated to minimize droop rate and reduce the sensitivity of pedestal error. The HA5352/883 Dual Sample and Hold is available in a 14 lead CerDIP package saving board space while its pinout is designed to simplify layout.

**Ordering Information**

PART NUMBER	TEMPERATURE RANGE	PACKAGE
HA5352MJ/883	-55°C to +125°C	14 Lead CerDIP

**Pinout**

