

Operational Amplifier, Single, 1 Amplifier, 80 MHz, 35 V/ $\mu$ s, 2.7V to 12V, SOT-23, 5 Pins

Manufacturers	<a href="#">Analog Devices, Inc</a>
Package/Case	SOT-23-5
Product Type	Amplifier ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for AD8031ARTZ-REEL7 or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

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## General Description

The AD8031 (single) is a single supply voltage feedback amplifier that features high speed performance with 80 MHz of small signal bandwidth, 30 V/ $\mu$ s slew rate and 125 ns settling time. This performance is possible while consuming less than 4.0 mW of power from a single +5 V supply. This feature increases the operation time of high speed, battery-powered systems without compromising dynamic performance.

The AD8031 has true single supply capability with rail-to-rail input and output characteristics and is specified for +2.7 V, +5 V, and  $\pm$ 5 V supplies. The input voltage range can extend to 500 mV beyond each rail. The output voltage swings to within 20 mV of each rail providing the maximum output dynamic range.

The AD8031 also offers excellent signal quality for only 800  $\mu$ A of supply current per amplifier; THD is -62 dBc with a 2 V p-p, 1 MHz output signal, and -86 dBc for a 100 kHz, 4.6 V p-p signal on +5 V supply. The low distortion and fast settling time make it ideal as a buffer to single supply ADCs.

Operating on supplies from +2.7 V to +12 V and dual supplies up to  $\pm$ 6 V, the AD8031 is ideal for a wide range of applications, from battery operated systems with large bandwidth requirements to high speed systems where component density requires lower power dissipation. The AD8031 is available in 8-lead PDIP, 8-lead SOIC\_N and 5-lead SOT-23 packages and operates over the industrial temperature range of -40°C to +85°C.

AD8032 - Dual Amplifier

## Features

Low power Supply current 800  $\mu$ A/amplifier Fully specified at +2.7 V, +5 V and  $\pm$ 5 V supplies

High speed and fast settling on 5 V 80 MHz,  $-3$  dB bandwidth

Output current: 15 mA

High grade option VOS

Rail-to-rail input and output No phase reversal with input 0.5 V beyond supplies Input CMVR extends beyond rails by 200 mV Output swing to within 20 mV of either rail

Low distortion  $-62$  dB @ 1 MHz, = 4.6 V p-p



## Related Products



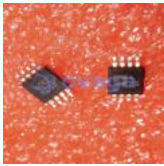
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