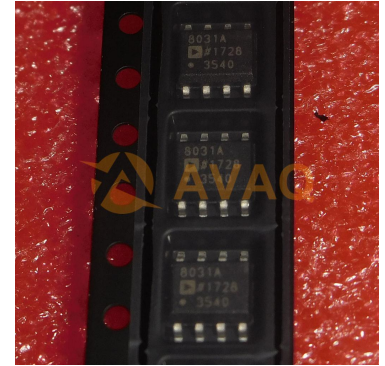


Op Amp Single High Speed Amplifier R-R I/O $\pm 6V/12V$ 8-Pin SOIC N Tube



Images are for reference only

[Inquiry](#)

Manufacturer: [Analog Devices, Inc](#)

Package/Case: SOP8

Product Type: Amplifier ICs

RoHS: RoHS Compliant/Lead free 

Lifecycle: Active

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/ μ 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 ± 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 μ 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 ± 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

Key Features

Low power

800 μ A/amplifier Supply current

High speed and fast settling on 5V

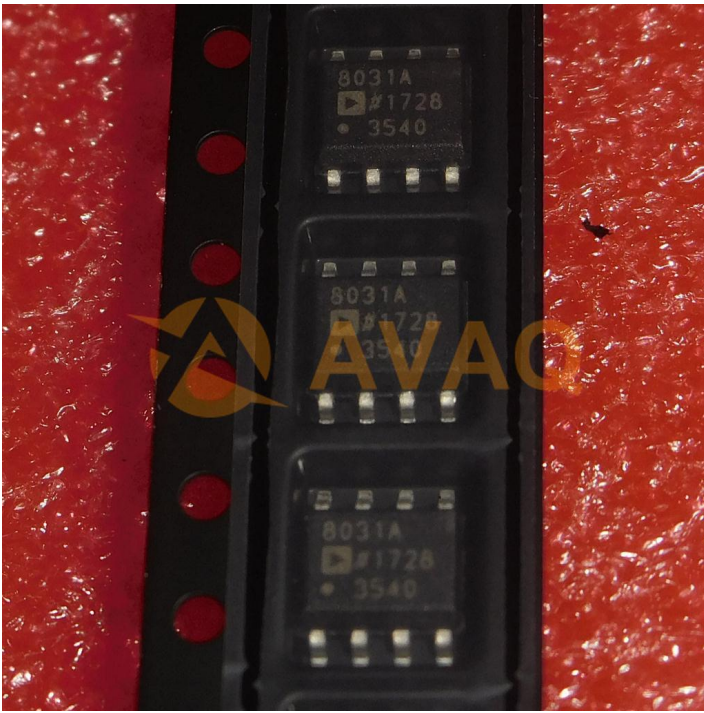
125ns Settling time to 0.1%

No phase reversal with input 0.5V beyond supplies

Input CMVR extends beyond rails by 200mV

Output swing to within 20mV of either rail

Low distortion



Recommended For You

AD8309ARUZ

Analog Devices, Inc

TSSOP16

AD524BDZ

Analog Devices, Inc

CDIP-16

AD8221BR

Analog Devices, Inc

SOP-8

AD8221ARZ

Analog Devices, Inc

SOP8

AD627BRZ

Analog Devices, Inc

SOP8

AD622ANZ

Analog Devices, Inc

DIP8

ADA4930-2YCPZ-R7

Analog Devices, Inc

LFCSP24

AD8034ARZ

Analog Devices, Inc

SOP8

AD8561ARZ

Analog Devices, Inc

SOP8

AD633JRZ

Analog Devices, Inc

SOP8

AD632AH

Analog Devices, Inc

CAN10

AD8422BRZ

Analog Devices, Inc

SOP8

ADCMP600BKSZ-R2

Analog Devices, Inc

SC70-5

AD620BN

Analog Devices, Inc

DIP8

AD620BR

Analog Devices, Inc

SOP