

True Bipolar Input, Single Supply, Parallel, 12-Bit 600 kSPS ADC; Package: SOIC - Wide;
No of Pins: 24; Temperature Range: Industrial

Manufacturers	Analog Devices, Inc
Package/Case	SOIC-24
Product Type	Data Conversion ICs
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for AD7892BRZ-2 or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The AD7892 is a high speed, low power, 12-bit A/D converter that operates from a single +5 V supply. The part contains a 1.47 μ s successive approximation ADC, an on-chip track/hold amplifier, an internal +2.5 V reference and on-chip versatile interface structures that allow both serial and parallel connection to a microprocessor. The part accepts an analog input range of ± 10 V or ± 5 V (AD7892-1), 0 V to +2.5 V (AD7892-2) and ± 2.5 V (AD7892-3). Overvoltage protection on the analog inputs for the AD7892-1 and AD7892-3 allows the input voltage to go to ± 17 V or ± 7 V respectively without damaging the ports.

The AD7892 offers a choice of two data output formats: a single, parallel, 12-bit word or serial data. Fast bus access times and standard control inputs ensure easy parallel interface to microprocessors and digital signal processors. A high speed serial interface allows direct connection to the serial ports of microcontrollers and digital signal processors.

In addition to the traditional dc accuracy specifications such as linearity, full-scale and offset errors, the part is also specified for dynamic performance parameters including harmonic distortion and signal-to-noise ratio.

The AD7892 is fabricated in Analog Devices' Linear Compatible CMOS (LC²MOS) process, a mixed technology process that combines precision bipolar circuits with low-power CMOS logic. It is available in a 24-pin, 0.3" wide, plastic or hermetic DIP or in a 24-pin SOIC.

Features

Fast 12-Bit ADC with 1.47 μ s Conversion Time

600 kSPS Throughput Rate (AD7892-3)

500 kSPS Throughput Rate (AD7892-1, AD7892-2)

Single Supply Operation

On-Chip Track/Hold Amplifier

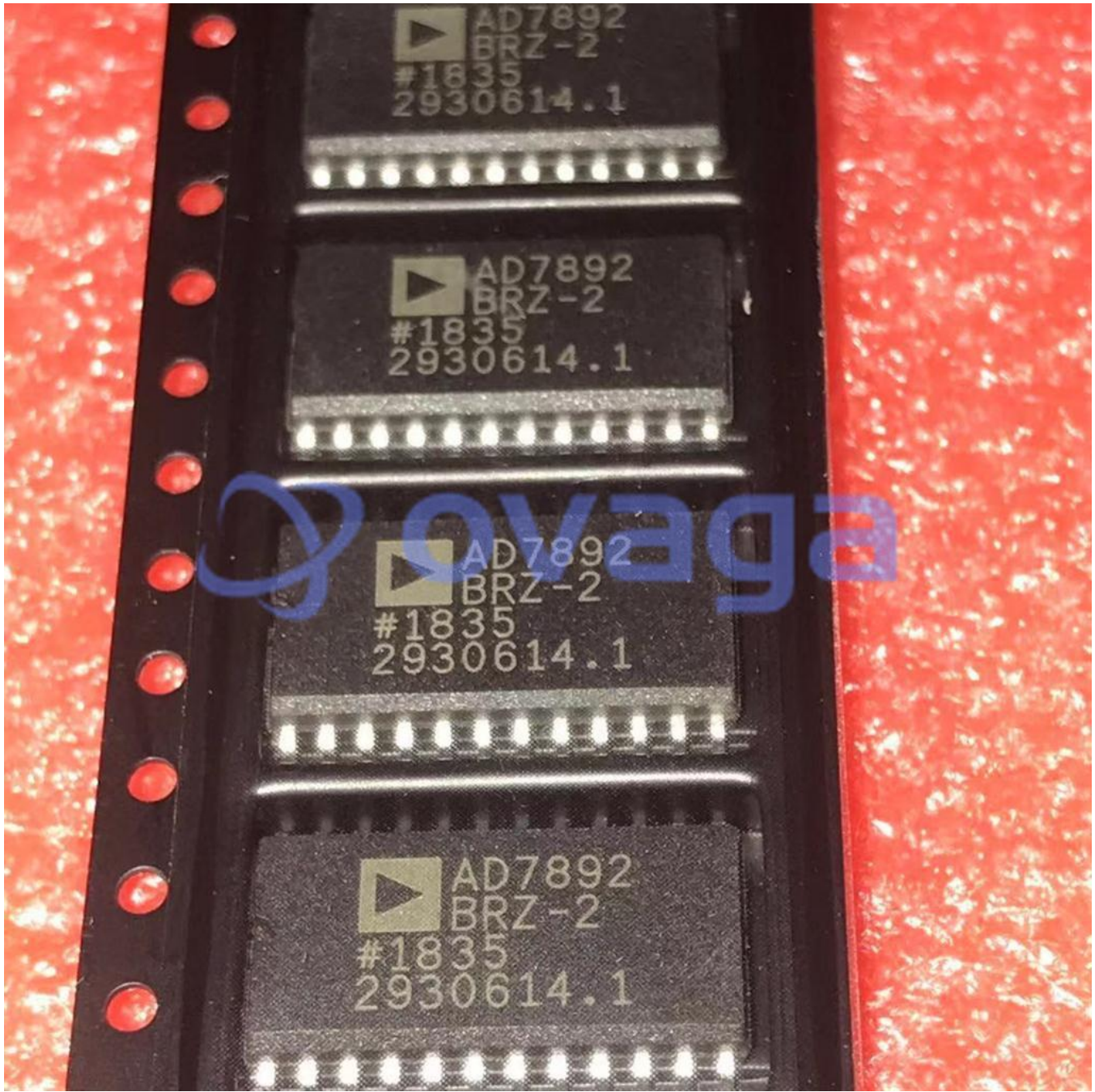
High Speed Serial and Parallel Interface

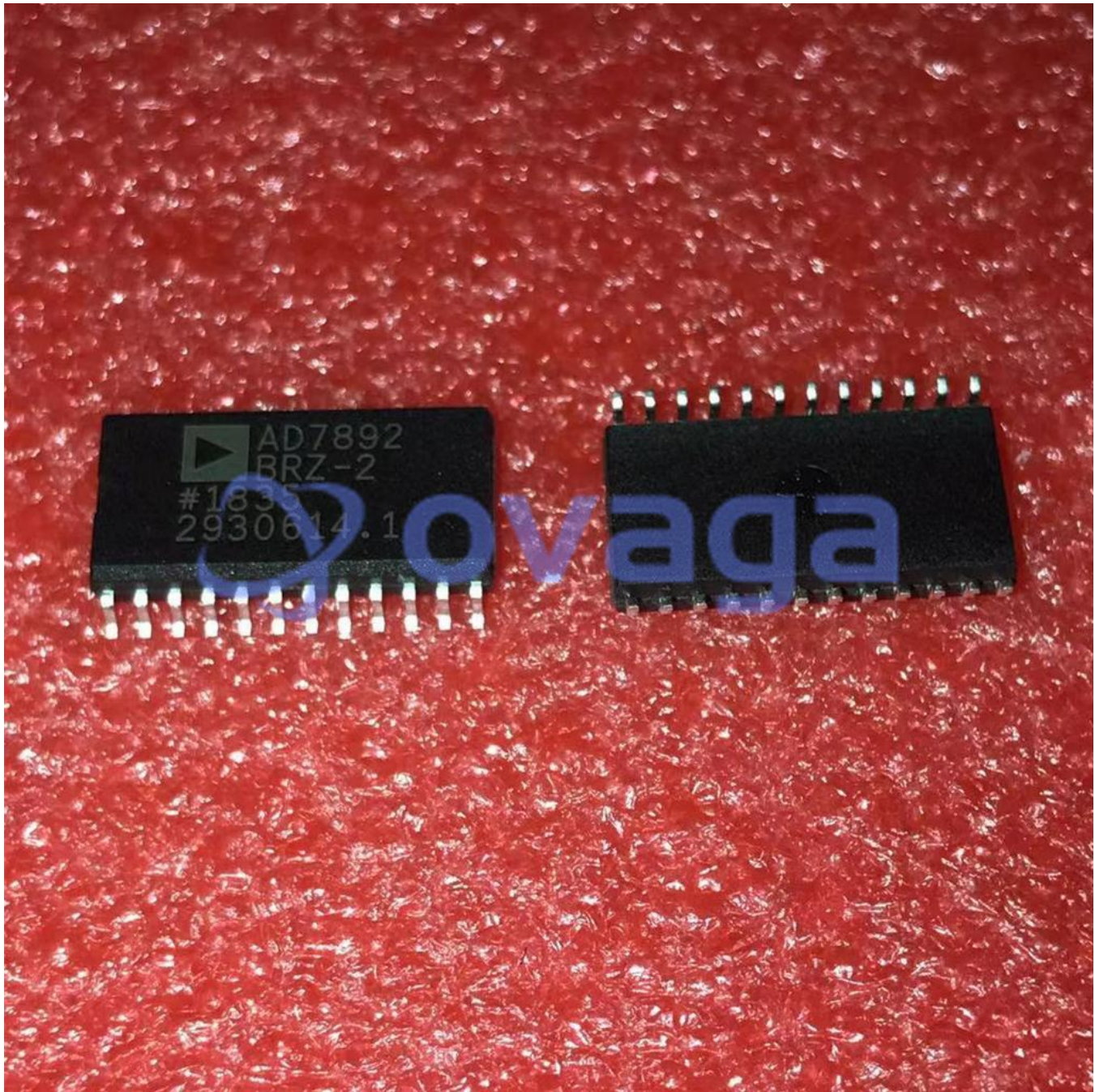
Low Power, 60 mW typ

Selection of Input Ranges:

0 V to +2.5 V for AD7892-2

Overvoltage Protection on Analog Inputs (AD7892-1 and AD7892-3)



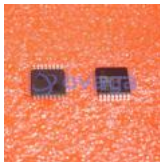


Related Products



[ADAS3022BCPZ](#)

Analog Devices, Inc
LFCSP-40



[AD7266BSUZ](#)

Analog Devices, Inc
TQPF-32



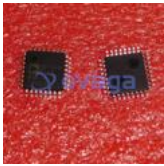
[AD574AJNZ](#)

Analog Devices, Inc
PDIP-28



[AD7401YRWZ](#)

Analog Devices, Inc
SOIC-16



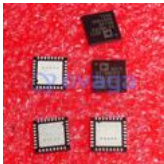
[AD7938BSUZ](#)

Analog Devices, Inc
TQFP-32



[AD7192BRUZ-REEL](#)

Analog Devices, Inc
TSSOP-24



[AD7124-8BCPZ-RL7](#)

Analog Devices, Inc
LFCSP-32



[AD9680BCPZ-500](#)

Analog Devices, Inc
LFCSP-64