LTC1152CS8#PBF

Data Sheet

Operational Amplifier, Single, 1 Amplifier, 700 kHz, 0.5 V/µs, 2.7V to 14V, SOIC, 8 Pins

Images are for reference only

Manufacturers	Analog Devices, Inc
Package/Case	SOP-8
Product Type	Amplifier ICs
RoHS	Pb-free Halide free
Lifecycle	

Please submit RFQ for LTC1152CS8#PBF or Email to us: sales@ovaga.com We will contact you in 12 hours. RFQ

General Description

The LTC1152 is a high performance, low power zero-drift op amp featuring an input stage that common modes to both power supply rails and an output stage that provides rail-to-rail swing, even into heavy loads. The wide in put common-mode range is achieved with a high frequency on-board charge pump. This technique eliminates the crossover distortion and limited CMRR imposed by competing technologies. The LTC1152 is a C-Load™ op amp, enabling it to drive any capacitive load.

The LTC1152 shares the excellent DC performance specs of LTC's other zero-drift amplifiers. Typical offset voltage is 1µVand typical off-set drift is 10nV/°C.CMRR and PSRR are 130dB and 120dB and open-loop gain is 130dB. Input noise voltage is 2µVP-P from 0.1Hz to 10Hz. Gain-bandwidth product is 0.7MHz and slew rate is 0.5V/µs, all with product is 0.7MHz and slew rate is 0.5V/µs, all with supply current of 3.0mA max over temperature. The LTC1152 also includes a shutdown feature which drops supply current to 1µA and puts the output stage in a high impedance state.

The LTC1152 is available in 8-pin PDIP and 8-pin SO packages and uses the standard op amp pin-out, allowing it to be a plug-in replacement for many standard op amps.

Features

Input Common-Mode Range Includes Both Rails

Output Swings Rail to Rail

Output Will Drive 1kΩ Load

No External Components Required

Input Offset Voltage: 10μV Max

Input Offset Drift: 100nV/°C Max

Minimum CMRR: 115dB

Supply Current: 3.0mA Max

Shutdown Pin Drops Supply Current to 5μA Max

Output Configurable to Drive Any Capacitive Load

Operates from 2.7V to 14V Total Supply Voltage

Application

Rail-to-Rail Amplifiers and Buffers

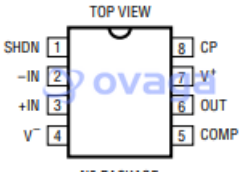
High Resolution Data Acquisition Systems

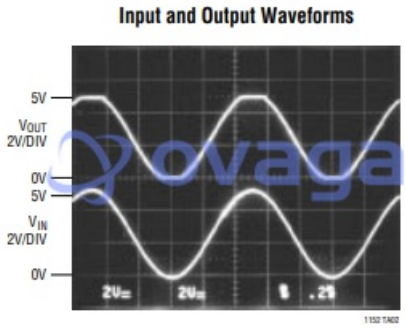
Supply Current Sensing in Either Rail

Low Supply Voltage Transducer Amplifiers

High Accuracy Instrumentation

Single Negative Supply Operation





Related Products

[LTC1151CSW#PBF](#)

Analog Devices, Inc

SOIC-16

[LT1498CS8](#)

Analog Devices, Inc

SOP-8

[LTC2053CMS8](#)

Analog Devices, Inc

MSOP8

[LTC1150CN8](#)

Analog Devices, Inc

DIP8

LT1491ACS

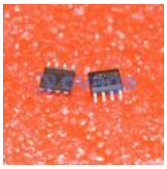
Analog Devices, Inc

SOP14

LT6105IMS8

Analog Devices, Inc

MSOP-8



LTC1150CS8

Analog Devices, Inc

SOP8

LT1013CN8

Analog Devices, Inc

DIP-8