



OPAx170 36-V, Single-Supply, SOT553, Low-Power Operational Amplifiers Value Line Series

1 Features

- Supply Range: 2.7 V to 36 V, ± 1.35 V to ± 18 V
- Low Noise: 19 nV/ $\sqrt{\text{Hz}}$
- RFI Filtered Inputs
- Input Range Includes the Negative Supply
- Input Range Operates to Positive Supply
- Rail-to-Rail Output
- Gain Bandwidth: 1.2 MHz
- Low Quiescent Current: 110 μA per Amplifier
- High Common-Mode Rejection: 120 dB
- Low Bias Current: 15 pA (Maximum)
- Industry-Standard Packages and *micro* Packages Available

2 Applications

- Tracking Amplifier in Power Modules
- Merchant Power Supplies
- Transducer Amplifiers
- Bridge Amplifiers
- Temperature Measurements
- Strain Gauge Amplifiers
- Precision Integrators
- Battery-Powered Instruments
- Test Equipment

3 Description

The OPA170, OPA2170, and OPA4170 devices (OPAx170) are a family of 36-V, single-supply, low-noise operational amplifiers that feature micro packages with the ability to operate on supplies ranging from 2.7 V (± 1.35 V) to 36 V (± 18 V). They offer good offset, drift, and bandwidth with low quiescent current. The single, dual, and quad versions all have identical specifications for maximum design flexibility.

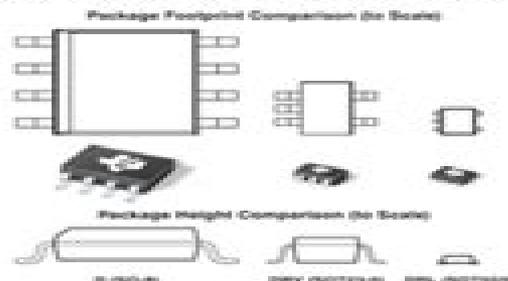
Unlike most operational amplifiers, which are specified at only one supply voltage, the OPAx170 family of operational amplifiers is specified from 2.7 V to 36 V. Input signals beyond the supply rails do not cause phase reversal. The OPAx170 family is stable with capacitive loads up to 300 pF. The input can operate 100 mV below the negative rail and within 2 V of the positive rail for normal operation. Note that these devices can operate with full rail-to-rail input 100 mV beyond the positive rail, but with reduced performance within 2 V of the positive rail. The OPAx170 operational amplifiers are specified from -40°C to 125°C .

Device Information⁽¹⁾

PART NUMBER	PACKAGE	BODY SIZE (MM)
OPA170	SOIC (8)	4.90 mm × 3.91 mm
	SOT (5)	1.60 mm × 1.20 mm
	SOT-23 (5)	2.90 mm × 1.60 mm
OPA2170	SOIC (8)	4.90 mm × 3.91 mm
	VSSOP (8)	3.00 mm × 3.00 mm
	VSSOP (8), <i>micro size</i>	2.30 mm × 2.00 mm
OPA4170	SOIC (14)	6.65 mm × 3.91 mm
	TSSOP (14)	5.00 mm × 4.40 mm

(1) For all available packages, see the orderable addendum at the end of the data sheet.

Smallest Packaging for 36-V Operational Amplifiers



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Electrical Atomic Force Microscopy for Nanoelectronics Umberto Celano, 2019-08-01 The tremendous impact of electronic devices on our lives is the result of continuous improvements of the billions of nanoelectronic components inside integrated circuits ICs However ultra scaled semiconductor devices require nanometer control of the many parameters essential for their fabrication Through the years this created a strong alliance between microscopy techniques and IC manufacturing This book reviews the latest progress in IC devices with emphasis on the impact of electrical atomic force microscopy AFM techniques for their development The operation principles of many techniques are introduced and the associated metrology challenges described Blending the expertise of industrial specialists and academic researchers the chapters are dedicated to various AFM methods and their impact on the development of emerging nanoelectronic devices The goal is to introduce the major electrical AFM methods following the journey that has seen our lives changed by the advent of ubiquitous nanoelectronics devices and has extended our capability to sense matter on a scale previously inaccessible

Essential Circuit Analysis using LTspice® Farzin Asadi, 2022-08-26 This textbook provides a compact but comprehensive treatment that guides students through the analysis of circuits using LTspice Ideal as a hands on source for courses in Circuits Electronics Digital Logic and Power Electronics this text focuses on solving problems using market standard software corresponding to all key concepts covered in the classroom The author uses his extensive classroom experience to guide students toward deeper understanding of key concepts while they gain facility with software they will need to master for later studies and practical use in their engineering careers

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Proceedings of the ... Custom Integrated Circuits Conference ,1986 The 11th
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