

LINEAR TECHNOLOGY LT6015HS5#TRPBF Operational Amplifier, Single, 1 Amplifier, 3.3MHz, 0.8V/ μ s, 3V to 50V, TSOT-23, 5Pins

Manufacturers	Analog Devices, Inc
Package/Case	SOT23-5
Product Type	Amplifier ICs
RoHS	Green
Lifecycle	



Images are for reference only

Please submit RFQ for LT6015HS5#TRPBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LT6015/LT6016/LT6017 are single/dual/quad rail-to-rail input operational amplifiers with input offset voltage trimmed to less than 50 μ V. These amplifiers operate on single and split supplies with a total voltage of 3V to 50V and draw only 315 μ A per amplifier. They are reverse battery protected, drawing very little current for reverse supplies up to 50V.

The Over-The-Top® input stage of the LT6015/LT6016/LT6017 is designed to provide added protection in tough environments. The input common mode range extends from V_- to V_+ and beyond: these amplifiers operate with inputs up to 76V above V_- independent of V_+ . Internal resistors protect the inputs against transient faults up to 25V below the negative supply. The LT6015/LT6016/LT6017 can drive loads up to 25mA and are unity-gain stable with capacitive loads as large as 200pF. Optional external compensation can be added to extend the capacitive drive capability beyond 200pF.

The LT6015 is offered in a 5-lead SOT package. The LT6016 dual op amp is available in an 8-lead MSOP package. The LT6017 is offered in a 22-pin leadless DFN package.

Features

Input Common Mode Range: V_- to $V_+ + 76V$

Rail-to-Rail Input and Output

Low Power: $315\mu A$ /Amplifier

Operating Temperature Range: $-55^\circ C$ to $150^\circ C$

VOS: $\pm 50\mu V$ (Maximum)

CMRR, PSRR: 126dB

Reverse Battery Protection to 50V

Gain Bandwidth Product: 3.2MHz

Specified on 5V and $\pm 15V$ Supplies

High Voltage Gain: 1000V/mV

No Phase Reversal

No Supply Sequencing Problems

Single 5-Lead SOT-23 (ThinSOT™) Package

Dual 8-Lead MSOP

Quad 22-Lead DFN ($6mm \times 3mm$)

Application

High Side or Low Side Current Sensing

Battery/Power Supply Monitoring

4mA to 20mA Transmitters

High Voltage Data Acquisition

Battery/Portable Instrumentation



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



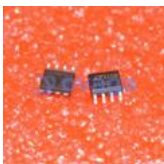
[LT1491ACS](#)

Analog Devices, Inc
SOP14



[LT6105IMS8](#)

Analog Devices, Inc
MSOP-8



[LTC1150CS8](#)

Analog Devices, Inc
SOP8



[LT1013CN8](#)

Analog Devices, Inc
DIP-8