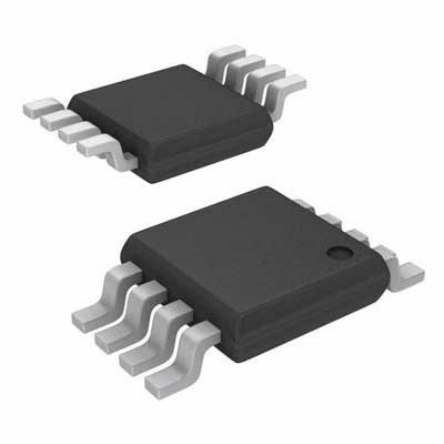
LT6016IMS8#PBF

Data Sheet

Operational Amplifier, Rail-to-Rail I/O, 2 Amplifier, 3.3 MHz, 0.8 V/µs, 3V to 50V, MSOP, 8 Pins

Manufacturers	Analog Devices, Inc
Package/Case	MSOP8
Product Type	Amplifier ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for LT6016IMS8#PBF or Email to us: 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 50µV. These amplifiers operate on single and split supplies with a total voltage of 3V to 50V and draw only 315µA 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: 315µA/Amplifier

Operating Temperature Range: –55°C to 150°C

VOS: ±50µV (Maximum)

CMRR, PSRR: 126dB

Reverse Battery Protection to 50V

Gain Bandwidth Product: 3.2MHz

Specified on 5V and ±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 × 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

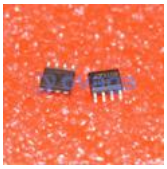
Analog Devices, Inc

SOP14

LT6105IMS8

Analog Devices, Inc

MSOP-8



LTC1150CS8

Analog Devices, Inc

SOP8

LT1013CN8

Analog Devices, Inc

DIP-8