LTC6246CS6#TRMPBF

Data Sheet

Special Function IC, Overvoltage Protector, 1.2V to 28V in, SC-70-6

Manufacturers	Analog Devices, Inc
Package/Case	SOT-23-6
Product Type	Amplifier ICs
RoHS	Green
Lifecycle	

Images are for reference only

Please submit RFQ for LTC6246CS6#TRMPBF or Email to us: sales@ovaga.com We will contact you in 12 hours. RFQ

General Description

The LTC6246/LTC6247/LTC6248 are single/dual/quad low power, high speed unity gain stable rail-to-rail input/output operational amplifiers. On only 1mA of supply current they feature an impressive 180MHz gain-bandwidth product, 90V/µs slew rate and a low 4.2nV/√Hz of input-referred noise. The combination of high bandwidth, high slew rate, low power consumption and low broadband noise makes these amplifiers unique among rail-to-rail input/output op amps with similar supply currents. They are ideal for lower supply voltage high speed signal conditioning systems.

The LTC6246 family maintains high efficiency performance from supply voltage levels of 2.5V to 5.25V and is fully specified at supplies of 2.7V and 5.0V.

For applications that require power-down, the LTC6246 and the LTC6247 in MS10 offer a shutdown pin which disables the amplifier and reduces current consumption to 42µA.

The LTC6246 family can be used as a plug-in replacement for many commercially available op amps to reduce power or to improve input/output range and performance.

Features

Gain Bandwidth Product: 180MHz

Low Quiescent Current: 1mA Max

High Slew Rate: 90V/μs

Input Common Mode Range Includes Both Rails

Output Swings Rail-to-Rail

Low Broadband Voltage Noise: 4.2nV/√Hz

Power-Down Mode: 42μA

Fast Output Recovery

Supply Voltage Range: 2.5V to 5.25V

Input Offset Voltage: 0.5mV Max

Input Bias Current: 100nA

Large Output Current: 50mA

CMRR: 110dB

Open Loop Gain: 45V/mV

Operating Temperature Range: –40°C to 125°C

Single in 6-Pin TSOT-23

Dual in MS8, 2mm × 2mm Thin DFN,TS0T-23, MS10

Quad in MS16

Application

Low Voltage, High Frequency Signal Processing

Driving A/D Converters

Rail-to-Rail Buffer Amplifiers

Active Filters

Video Amplifiers

Fast Current Sensing Amplifiers

Battery Powered Equipment

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]

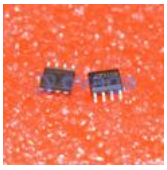
Analog Devices, Inc

SOP14

[LT6105IMS8]

Analog Devices, Inc

MSOP-8



[LTC1150CS8]

Analog Devices, Inc

SOP8

[LT1013CN8]

Analog Devices, Inc

DIP-8