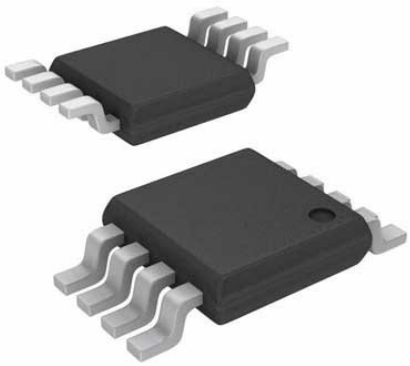
LT6108IMS8-2#PBF

Data Sheet

Current Sense Amplifier, Precision, 1 Amplifier, 0.06 µA, MSOP, 8 Pins, -40 °C, 85 °C

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 LT6108IMS8-2#PBF or Email to us: sales@ovaga.com We will contact you in 12 hours. RFQ

General Description

The LT6108 is a complete high side current sense device that incorporates a precision current sense amplifier, an integrated voltage reference and a comparator. Two versions of the LT6108 are available. The LT6108-1 has a latching comparator and the LT6108-2 has a non-latching comparator. In addition, the current sense amplifier and comparator inputs and outputs are directly accessible. The amplifier gain and comparator trip point are configured by external resistors. The open-drain comparator output allows for easy interface to other system components.

The overall propagation delay of the LT6108 is typically only 1.4µs, allowing for quick reaction to overcurrent conditions. The 1MHz bandwidth allows the LT6108 to be used for error detection in critical applications such as motor control. The high threshold accuracy of the comparator, combined with the ability to latch the comparator, ensures the LT6108 can capture high speed events.

The LT6108 is fully specified for operation from –40°C to 125°C, making it suitable for industrial and automotive applications. The LT6108 is available in the small 8-lead MSOP and 8-lead DFN packages.

Features

Current Sense Amplifier

Fast Step Response: 500ns

Low Offset Voltage: 125µV Maximum

Low Gain Error: 0.2% Maximum

Internal 400mV Precision Reference

Internal Comparator

Fast Response Time: 500ns

Total Threshold Error: ±1.25% Maximum

Latching or Non-Latching Comparator Option

Wide Supply Range: 2.7V to 60V

Supply Current: 450µA

Low Shutdown Current: 5µA Maximum

Specified for –40°C to 125°C Temperature Range

Available in 8-Lead MSOP and 8-Lead (2mm × 3mm) DFN Packages

Application

Overcurrent and Fault Detection

Current Shunt Measurement

Battery Monitoring

Motor Control

Automotive Monitoring and Control

Remote Sensing

Industrial Control

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

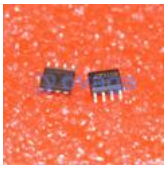
Analog Devices, Inc

SOP14

LT6105IMS8

Analog Devices, Inc

MSOP-8



LTC1150CS8

Analog Devices, Inc

SOP8

LT1013CN8

Analog Devices, Inc

DIP-8