

MICROCIRCUIT, HIGH VOLTAGE, CURRENT SHUNT MONITOR, MONOLITHIC

Manufacturers	Analog Devices, Inc
Package/Case	DIP
Product Type	Amplifier ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for 5962R0924401VHA or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The AD8212S is a high common-mode voltage, current shunt monitor. It accurately amplifies a small differential input voltage in the presence of large common-mode voltages up to 65 V (>500 V with an external PNP transistor). The AD8212S is ideal for current monitoring across a shunt resistor in applications controlling loads, such as motors and solenoids. The current output of the device is proportional to the input differential voltage. The user can select an external resistor to set the desired gain. The typical common-mode voltage range of the AD8212S is 7 V to 65 V. Another feature of the AD8212S is high voltage operation, which is achieved by using an external high voltage breakdown PNP transistor. In this configuration, the common-mode range of the AD8212S is equal to the breakdown of the external PNP transistor. Therefore, operation at several hundred volts is easily achieved. The AD8212S features a patented output base current compensation circuit for high voltage operation mode. This ensures that no base current is lost through the external transistor and excellent output accuracy is maintained regardless of common-mode voltage or temperature. Applications include: Current shunt measurement, Motor controls, DC-to-DC converters, Power supplies, Battery monitoring, Remote sensing

Features

Adjustable gain

High common-mode voltage range 7 V to 65 V typical 7 V to >500 V with external pass transistor

Current output

Integrated 5 V series regulator

Related Products



[HMC591LP5E](#)

Analog Devices, Inc
QFN32



[AD8599ARZ](#)

Analog Devices, Inc
SOIC-8



[5962-8773802PA](#)

Analog Devices, Inc
CDIP-8



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MSOP-1