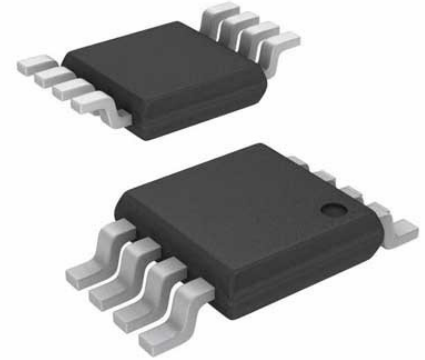


ANALOG DEVICES AD8214ARMZ Fan failure detector, integrated power switch, 5V-65V input, MSOP-8

Manufacturers	Analog Devices, Inc
Package/Case	MSOP-8
Product Type	Specialty Amplifiers ; Current Sense Amplifiers
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for AD8214ARMZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The AD8214 is a fast response, high common-mode voltage, current shunt comparator. The device operates on the high side rail of any DC current sensing application, provided the voltage is between 5 V and 65 V. Internally, the AD8214 features a fast comparator that is optimized for high side operation. An internal Zener regulator powers the circuit with respect to the high side DC rail. In addition, user access to this 2.4V regulator, allows for setting a comparator threshold voltage via external resistors. The AD8214 will compare the voltage across the shunt resistor to this user-selected threshold, and the AD8214 output will change states from low to high, indicating the current across the shunt has crossed the threshold level.

The input to output response time of the AD8214 is typically less than 100 ns. This makes the device optimal for overcurrent protection in applications such as motor and solenoid control. Built-in comparator hysteresis means that once the current across the shunt falls back to a normal limit, the AD8214 output will change states to its original level.

The AD8214 is available in an 8-lead MSOP package. The operating temperature range is -40°C to $+125^{\circ}\text{C}$, and the device is fully qualified for automotive applications.

Applications Overcurrent protection

Motor controls

Transmission controls

Diesel injection controls

DC-to-DC converters

Power supplies

Batteries

Features

Input-to-output response:<100 ns

High input common-mode voltage rangeOperating: 5 V to 65 VSurvival: 0 V to 68 V

Current output

Hysteresis: 10 mV

Integrated 2.4 V regulator

Wide operating temperature range: -40°C to +125°C

8-lead MSOP package

Qualified for automotive applications

Application

Motor controls

Transmission controls

Diesel injection controls

DC-to-DC converters

Power supplies

Batteries

Related Products



[ADP3336ARMZ-REEL7](#)

Analog Devices, Inc
MSOP-8



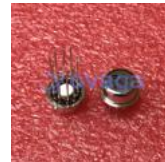
[AD737JRZ](#)

Analog Devices, Inc
SOP-8



[ADP3367ARZ](#)

Analog Devices, Inc
SOIC-8



[AD636JH](#)

Analog Devices, Inc
TO-100-10



[ADP3330ARTZ3.3-RL7](#)

Analog Devices, Inc
SOT-23-6



[ADR434BRZ](#)

Analog Devices, Inc
SOIC-8



[ADR421ARZ](#)

Analog Devices, Inc
SOP-8



[ADR3412ARJZ-R7](#)

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SOT-23-6