

ADG5208FBRUZ

Data Sheet

Fault Protection, -0.4 pC QINJ, 8:1 Multiplexer

Manufacturers	Analog Devices, Inc	paraula	
Package/Case	16-Lead TSSOP		
Product Type	Switches	hanna	
RoHS			
Lifecycle		Images are for reference only	
Please submit RFQ for ADG5208FBRUZ or Email to us; sales@ovaga.com We will contact you in 12 hours.			RFO

General Description

The ADG5208F and ADG5209F are 8:1 and dual 4:1 analognultiplexers. The ADG5208F switches one of eight inputs to a common output, and the ADG5209F switches one of fourdifferential inputs to a common differential output. An EN input both devices enables or disables the device. Each channel conducts equally well in both directions when on, and each channel has an input signal range that extends to the supplies. The digital inputs are compatible with 3 V logic inputs over thefull operating supply range.

When no power supplies are present, the channelremains in the offcondition, and the switch inputs are high impedance. Under normaloperating conditions, if the analog input signal levels on any Sx pinexceed positive fault voltage (VDD) or negative fault voltage (VSS)by a threshold voltage (VT), the channel turns off and that Sx pinbecomes high impedance. If the fault channel is selected, the drainpin is pulled to the secondary supply voltage that was exceeded.

Input signal levels of up to -55 V or +55 V relative to ground areblocked, in both the powered and unpowered conditions.

The low capacitance and charge injection of these switches make them ideal solutions for data acquisition and sample-and-holdapplications, where low glitch switching and fast settling times are required.

Product Highlights

The source pins are protected against voltages greater than the supply rails, up to -55 V and +55 V.

The source pins are protected against voltages between-55 V and +55 V in an unpowered state.

Trench isolation guards against latch-up.

Optimized for low charge injection and on capacitance.

The ADG5208F/ADG5209F can be operated from a dualsupply of ± 5 V up to ± 22 V or a single power supply of 8 Vup to 44 V.

Features

Overvoltage protection up to -55 V and $+55$ V			
Power-off protection up to -55 V and $+55$ V	Proc		
Overvoltage detection on source pins	Data		
Low charge injection (QINJ): -0.4 pC	Instr		
Low on capacitance: 20 pF	Avio		
Latch-up immune under any circumstance	Auto		
Known state without digital inputs present			
VSS to VDD analog signal range	Rela		
8 V to 44 V single-supply operation			
Fully specified at ± 15 V, ± 20 V, ± 12 V, and ± 36 V			

Related Products



ADG467BRSZ Analog Devices, Inc SSOP-20



ADP3050AR-3.3 Analog Devices, Inc SOP-8



ADG467BRSZ-REEL Analog Devices, Inc SSOP-20



ADG852BCPZ-REEL7

Analog Devices, Inc LFCSP10

Application

Analog input/output modules

Process control/distributed control systems

Data acquisition

Instrumentation

Avionics

Automatic test equipment

Communication systems

Relay replacement



ADG201ABQ

Analog Devices, Inc DIP-16

ADG512BR

Analog Devices, Inc SOP-16

ADG888BCBZ-REEL7



Analog Devices, Inc 16 ball WLCSP

ADG438FBNZ

Analog Devices, Inc DIP16



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