

ADG467BRSZ

Data Sheet

Analog Switch ICs Octal Channel Protector I.C.

Manufacturers	Analog Devices, Inc
Package/Case	SSOP-20
Product Type	Switches
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFC) for ADG467BRSZ or Email to us: sales@ovaga.com We will contact you in 12 hours.	

<u>RFQ</u>

General Description

The ADG467 is an octal channel protector. The channelprotector is placed in series with the signal path. The channelprotector protects sensitive components from voltage transience in the signal path regardless if the power supplies are present ornot. For this reason, the channel protectors are ideal for use inapplications where correct power sequencing cannot always beguaranteed (for example, hot insertion rack systems) to protectanalog inputs.

Each channel protector has an independent operation and consists of an N-channel MOSFET, a P-channel MOSFET, and anN-channel MOSFET, connected in series. The channel protector behaves just like a series resistor during normal operation, that is, (VSS + 1.5 V) < VIN < (VDD - 1.5 V). When a channel's analoginput exceeds the power supplies (including VDD and>

The ADG467 can operate off both bipolar and unipolar supplies. The channels are normally on when power is connected and open circuit when power is disconnected. With power supplies of ± 15 V, the on resistance of the ADG467 is 62 Ω typical with a leakage current of ± 1 nA maximum. When power is disconnected, the input leakage current is approximately ± 0.5 nA typical.

The ADG467 is available in an 18-lead SOIC package and a20-lead SSOP package.

Product Highlights

Fault Protection. The ADG467 can withstand continuous voltage inputs from -40 V to +40 V. When a fault occurs due to the power supplies being turned off or due to an overvoltage power is turned to the ADG467, the output is clamped. When power is turned off, current is limited to the the the the transformation of transformation of the transformation of trans

Low Power Dissipation.

Low RON. 62 Ω typical.

Trench Isolation Latch-Up Proof Construction.A dielectric trench separates the p- and n-channelMOSFETs thereby preventing latch-up.

Features

- Fault and overvoltage protection up to $\pm 40~\mathrm{V}$
- Signal paths open circuit with power off
- Signal path resistance of Ron with power on
- 44 V supply maximum ratings
- Low on resistance: 62 Ω typical
- Low RON match (5 Ω maximum)
- Low power dissipation 0.8 μ W typical
- Latch-up proof construction

Application

ATE equipment

Sensitive measurement equipment

Hot insertion rack systems





Related Products



Analog Devices, Inc DIP-16

ADG201ABQ



ADG512BR Analog Devices, Inc SOP-16





ADP3050AR-3.3

Analog Devices, Inc SOP-8

ADG467BRSZ-REEL

Analog Devices, Inc SSOP-20



ADG888BCBZ-REEL7

Analog Devices, Inc 16 ball WLCSP



ADG852BCPZ-REEL7

Analog Devices, Inc LFCSP10



ADG438FBNZ

Analog Devices, Inc DIP16



ADG467BRZ

Analog Devices, Inc SOIC-18