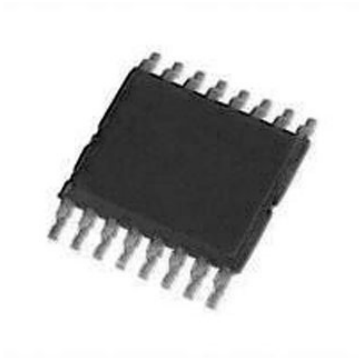
ADG4612BRUZ

Data Sheet

Analogue Switch, 4 Channels, SPST, 5.1 ohm, 3V to 12V, TSSOP, 16 Pins

Manufacturers	Analog Devices, Inc
Package/Case	TSSOP-16
Product Type	Analog Switch ICs
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for ADG4612BRUZ or Email to us: sales@ovaga.com We will contact you in 12 hours. RFQ

General Description

The ADG4612 & ADG4613 contain four independent singlepole/single-throw (SPST) switches. The ADG4612 switches areturned on with Logic 1 on the appropriate control input. TheADG4613 has two switches with digital control logic similar tothat of the ADG4612; the logic is inverted on the other twoswitches. Each switch conducts equally well in both directionswhen on and has an input signal range that extends to thesupplies. The ADG4613 exhibits break-before-make switchingaction for use in multiplexer applications.

When no power supplies are present the switch remains in theOFF condition and the switch inputs are high impedanceinputs. This ensures that no current flows that may damage theswitch. This is very useful in application where analog signalsmay be present at the switch inputs before power or where theuser has no control over the Power Supply Sequence.

In the off condition, signal levels up to 16V are blocked. Also, ifthe analog input signal levels exceed VDD by VT then the switchwill turn off.

The ultralow on resistance of these switches make them idealsolutions for data acquisition and gain switching applicationswhere low on resistance and distortion is critical. The onresistance profile is very flat over the full analog input rangeensuring excellent linearity and low distortion when switchingaudio signals.

Features

Power Off ProtectionSwitch guaranteed OFF with no power supplies presentInputs are high impedance with no power

Switch turns OFF if input > VDD+ VT

Over-voltage protection up to +16V

PSS Robust

Negative Signal Capability passes signals down to -5.5V

6.1Ω Max On Resistance

1.4Ω On Resistance Flatness

3V to 12 V single supply

3 V logic-compatible inputs

Rail-to-rail operation

16-lead TSSOP and 16 lead 3mm x 3mm LFCSP

Application

Hot swap applications

Data acquisition systems

Battery-powered systems

Automatic test equipment

Communication systems

Relay Replacement

Related Products

ADV7181CBSTZ

Analog Devices, Inc

LQFP-64

AD8170AR

Analog Devices, Inc

SOP8

AD724JR

Analog Devices, Inc

SOIC-16

ADV7393BCPZ

Analog Devices, Inc

LFCSP-VQ-40

ADV7391WBCPZ

Analog Devices, Inc

LFSCP-3

ADV7390BCPZ

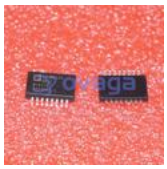
Analog Devices, Inc

QFN32

ADV7341BSTZ

Analog Devices, Inc

LQFP-64



ADUM4160BRIZ

Analog Devices, Inc

SOIC-16