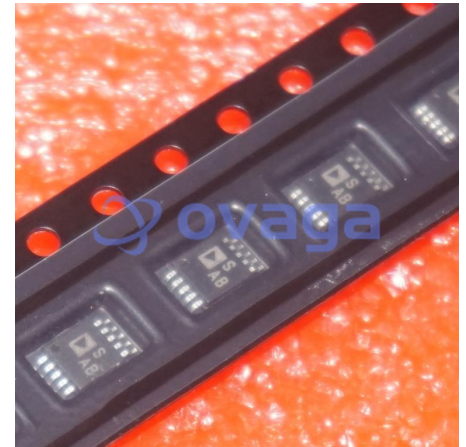


Analogue Switch, Dual Channel, 2 Channels, SPDT, 4 ohm, 1.8V to 5.5V, MSOP, 10 Pins

Manufacturers	Analog Devices, Inc
Package/Case	MSOP10
Product Type	Interface - Switches, Multiplexers, Demultiplexers
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for ADG736BRMZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com). We will contact you in 12 hours.

[RFQ](#)

General Description

The ADG736 is a monolithic device comprising two independently selectable CMOS single pole, double throw (SPDT) switches. These switches are designed using a submicron process that provides low power dissipation yet gives high switching speed, low on resistance, low leakage currents, and wide input signal bandwidth. The on resistance profile is very flat over the full analog signal range. This ensures excellent linearity and low distortion when switching audio signals. Fast switching speed also makes the part suitable for video signal switching. The ADG736 operates from a single 1.8 V to 5.5 V supply, making it ideally suited to portable and battery-powered instruments. Each switch conducts equally well in both directions when on, and each has an input signal range that extends to the power supplies. The ADG736 exhibits break-before-make switching action. The ADG736 is available in a 10-lead MSOP package.

Product Highlights

1.8 V to 5.5 V Single-Supply Operation. The ADG736 offers high performance, including low on resistance and fast switching times. It is fully specified and guaranteed with 3 V and 5 V supply rails.

Very Low RON (4.5 Ω Maximum at 5 V, 8 Ω Maximum at 3 V). At a supply voltage of 1.8 V, RON is typically 35 Ω over the temperature range.

Low On Resistance Flatness.

-3 dB Bandwidth > 200 MHz.

Low Power Dissipation. CMOS construction ensures low power dissipation.

Fast tON/tOFF.

Break-Before-Make Switching Action.

10-Lead MSOP Package.

Applications

USB 1.1 signal switching circuits

Cell phones

PDA's

Battery-powered systems

Communications systems

Sample-and-hold systems

Audio signal routing

Audio and video switching

Mechanical reed relay replacement

Features

1.8 V to 5.5 V single supply

Automotive temperature range: -40°C to $+125^{\circ}\text{C}$

2.5 Ω (typical) on resistance

Low on resistance flatness

Rail-to-rail operation 10-lead

MSOP package

Fast switching times T_{ON} 16 ns T_{OFF} 8 ns

Typical power consumption ($<0.01 \mu\text{W}$)

TTL-/CMOS-compatible

Qualified for automotive applications

Application

USB 1.1 signal switching circuits

Cell phones

PDA's

Battery-powered systems

Communications systems

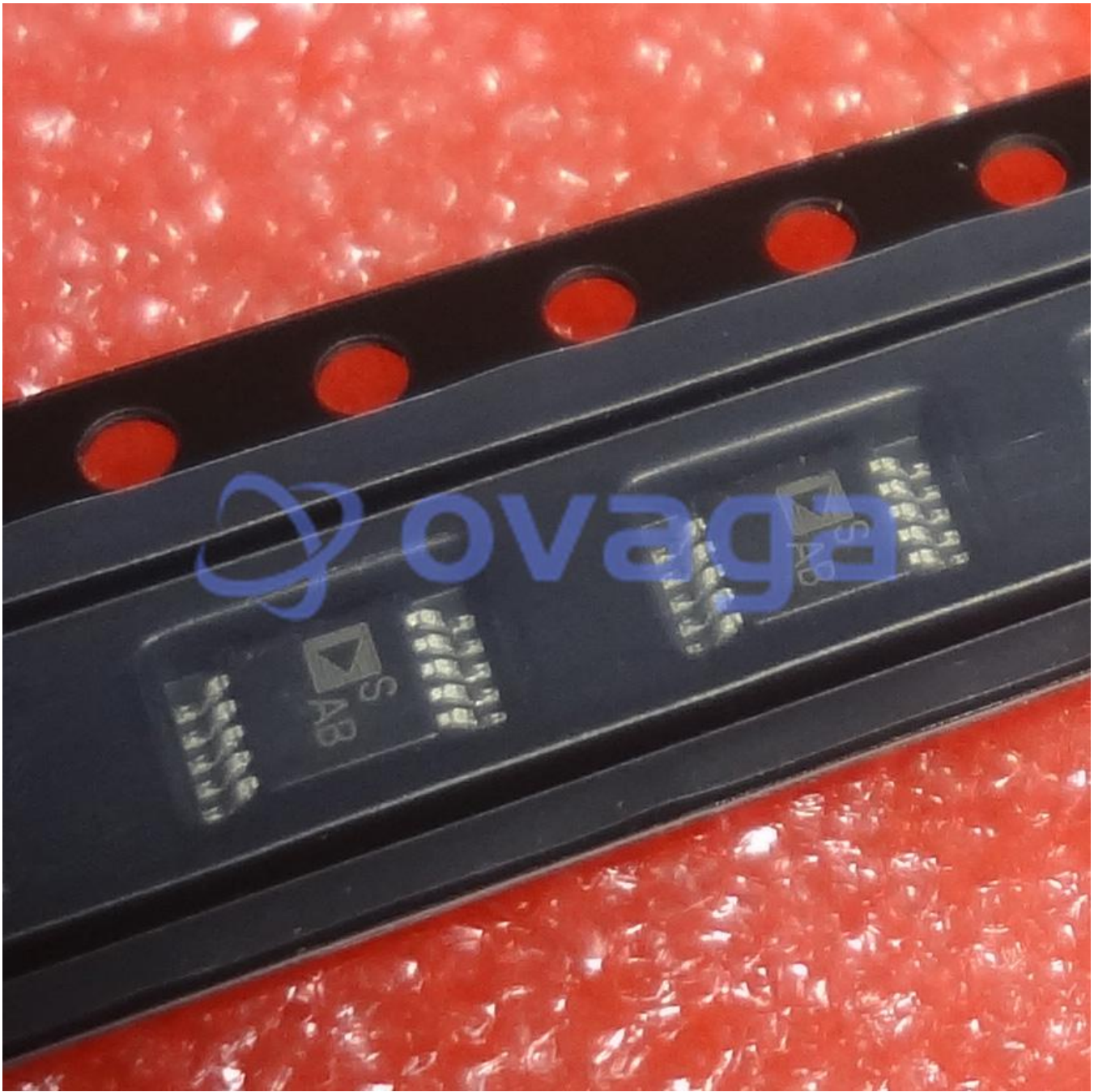
Sample-and-hold systems

Audio signal routing

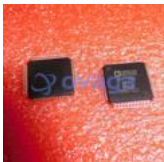
Audio and video switching

Mechanical reed 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



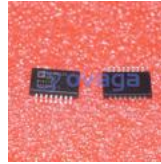
[ADV7390BCPZ](#)

Analog Devices, Inc
QFN32



[ADV7341BSTZ](#)

Analog Devices, Inc
LQFP-64



[ADUM4160BRIZ](#)

Analog Devices, Inc
SOIC-16