ADG613YRUZ

Data Sheet

1pC Charge Injection, 100pA Leakage, CMOS ±5 V/5 V/3 V Quad SPST Switches; Package: TSSOP; No of Pins: 16; Temperature Range: Automotive

Manufacturers	Analog Devices, Inc
Package/Case	TSSOP-16
Product Type	Analog Switches Multiplexers ; Single Supply 2V to 16V
RoHS	Rohs
Lifecycle	

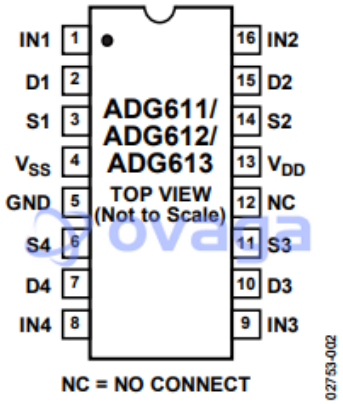


Figure 2. Pin Configuration

Images are for reference only

Please submit RFQ for ADG613YRUZ or Email to us: sales@ovaga.com We will contact you in 12 hours. RFQ

General Description

The ADG613-EP is a monolithic CMOS device containing fourindependently selectable switches. This switch offers ultralowcharge injection of 1 pC over the full input signal range andtypical leakage currents of 0.01 nA at 25°C.

The device is fully specified for ±5 V, 5 V, and 3 V supplies. Itcontains four independent single-pole, single-throw (SPST)switches. The ADG613-EP contains two switches with digitalcontrol logic that turns on with logic low and two switches inwhich the logic is inverted.

Each switch conducts equally well in both directions when onand has an input signal range that extends to the supplies. TheADG613-EP exhibits break-before-make switching action.

The ADG613-EP is available in a small, 16-lead TSSOP package.

The ADG613-EP is also a TTL-compatible device.

Product Highlights

Ultralow charge injection (1 pC typically).

Dual ±2.7 V to ±5.5 V or single 2.7 V to 5.5 V operation.

Temperature range: −55°C to +125°C.

Small, 16-lead TSSOP.

Features

1 pC charge injection

Automotive temperature range: −40°C to +125°C

100 pA maximum at 25°C leakage currents

85 Ω on resistance

Rail-to-rail switching operation

Fast switching times

16-lead TSSOP and SOIC packages

Typical power consumption: <0.1 µW

TTL-/CMOS-compatible inputs

ADG613-EP supports defense and aerospace applications(AQEC standard)

Download

Military temperature range: −55°C to +125°C

Controlled manufacturing baseline

1 assembly/test site

1 fabrication site

Enhanced product change notification

Qualification data available on request

V62/16617 DSCC Drawing Number

Application

Automatic test equipment

Data acquisition systems

Battery-powered systems

Communications systems

Sample-and-hold systems

Audio signal routing

Relay replacement

Avionics

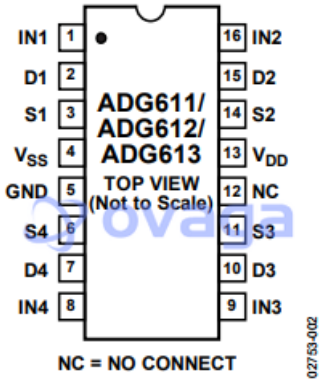


Figure 2. Pin Configuration

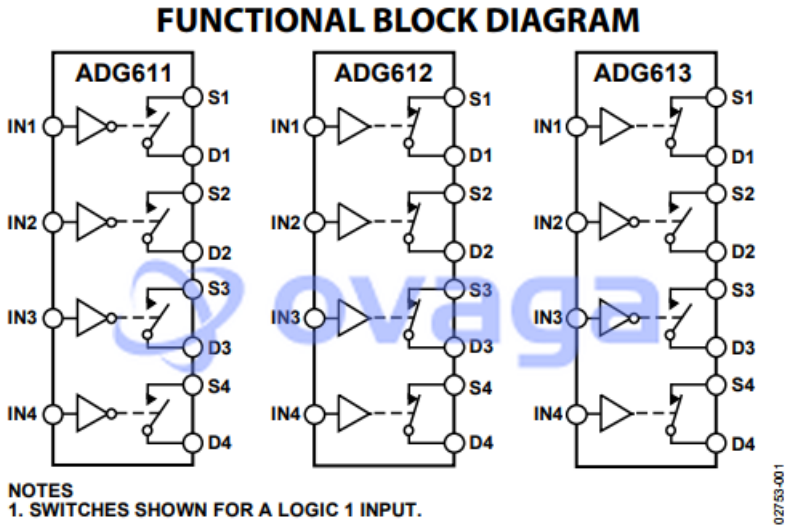


Figure 1.

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](#)

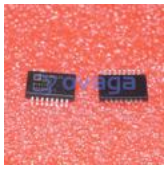
Analog Devices, Inc

QFN32

[ADV7341BSTZ](#)

Analog Devices, Inc

LQFP-64



[ADUM4160BRIZ](#)

Analog Devices, Inc

SOIC-16