

Low-Voltage, Single and Dual Supply, Quad SPDT, High Performance Analog Switches

Manufacturers	<a href="#">Renesas Technology Corp</a>
Package/Case	SSOP20
Product Type	Interface ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for ISL43240IA-T or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The Intersil ISL43240 device is a CMOS, precision, quad SPDT analog switch designed to operate from a single +2V to +12V supply or from a  $\pm 2V$  to  $\pm 6V$  supply. Targeted applications include battery powered equipment that benefit from the devices' low power consumption ( $5\mu W$ ), low leakage currents ( $5nA$  max), and fast switching speeds = 40ns). A  $5\Omega$  maximum rON flatness ensures signal fidelity, while channel-to-channel mismatch is guaranteed to be less than  $2\Omega$ . The ISL43240 is a quad single-pole/double-throw (SPDT) device and can be used as a quad SPDT, a quad 2:1 multiplexer, a single 4:1 multiplexer or a dual 2-channel differential multiplexer. Table 1 summarizes the performance of this family.

## Features

Fully specified for 10% tolerances at = 12V, 5V and 3.3V

Four separately controlled SPDT switches

ON-resistance ( $r_{ON}$ ): 18 $\Omega$

$r_{ON}$  matching between channels: <1 $\Omega$

Low charge injection: 5pC (Max)

Low power consumption ( $P_D$ ): <5 $\mu$ W

Low off leakage current (max at +85 $^{\circ}$ C): 2.5nA

Fast switching action

$t_{ON}$ : 52ns

$t_{OFF}$ : 40ns

Guaranteed break-before-make

Minimum 2000V ESD protection per Method 3015.7

TTL, CMOS compatible

Pb-free (RoHS compliant)





## Related Products



### [ISL83491IBZ](#)

Renesas Technology Corp  
SOIC-14



### [ISL99227FRZ-T](#)

Renesas Technology Corp  
32-PowerWFQFN



### [ISL83072EIBZA](#)

Renesas Technology Corp  
SOIC-8



### [IS82C55AZ](#)

Renesas Technology Corp  
PLCC-44



### [ISL3170EIUZ](#)

Renesas Technology Corp  
MSOP-10



### [ISL83078EIBZA](#)

Renesas Technology Corp  
SOIC-8



### [ISL81487EIBZ](#)

Renesas Technology Corp  
SOP-8



### [ISL83387EIVZ](#)

Renesas Technology Corp  
TSSOP-24