

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

Manufacturers	<a href="#">Renesas Technology Corp</a>
Package/Case	TSSOP-16
Product Type	Interface ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for ISL43144IVZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The Intersil ISL43143-ISL43145 devices are CMOS, precision, quad SPST analog switches 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 ( $<1\mu W$ ), 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 ISL43143/ISL43144/ISL43145 are quad single-pole/ single-throw (SPST) devices. The ISL43143 has four normally closed (NC) switches; the ISL43144 has four normally open (NO) switches; the ISL43145 has two NO and two NC switches and can be used as a dual SPDT, or a dual 2:1 multiplexer.

## Features

Fully Specified for 10% Tolerances at = 12V, 5V and 3.3V

Four Separately Controlled SPST Switches

Pin Compatible with DG411/DG412/DG413

ON Resistance ( $R_{ON}$  Max.)  $25\Omega$

$R_{ON}$  Matching Between Channels  $<1\Omega$

Low Power Consumption (PD)  $<1\mu W$

Low Off Leakage Current (Max at  $85^\circ C$ )  $2.5nA$

Fast Switching Action

$t_{ON}$   $52ns$

$t_{OFF}$   $40ns$

Minimum 2000V ESD Protection per Method 3015.7

TTL, CMOS Compatible

Pb-Free Plus Anneal Available (RoHS Compliant)



## Related Products



### [ISL83491IBZ](#)

Renesas Technology Corp  
SOIC-14



### [ISL3170EIUZ](#)

Renesas Technology Corp  
MSOP-10



### [ISL99227FRZ-T](#)

Renesas Technology Corp  
32-PowerWFQFN



### [ISL83078EIBZA](#)

Renesas Technology Corp  
SOIC-8



### [ISL83072EIBZA](#)

Renesas Technology Corp  
SOIC-8



### [ISL81487EIBZ](#)

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SOP-8



[IS82C55AZ](#)

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PLCC-44



[ISL83387EIVZ](#)

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TSSOP-24