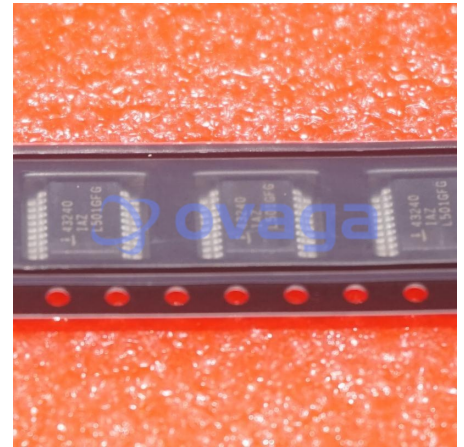


Low-Voltage, Single and Dual Supply, Quad SPDT, High Performance Analog Switches

Manufacturers	Renesas Technology Corp
Package/Case	SSOP-20
Product Type	Interface ICs
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for ISL43240IAZ-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 5Ω maximum r_{ON} flatness ensures signal fidelity, while channel-to-channel mismatch is guaranteed to be less than 2Ω . 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}): 18Ω

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

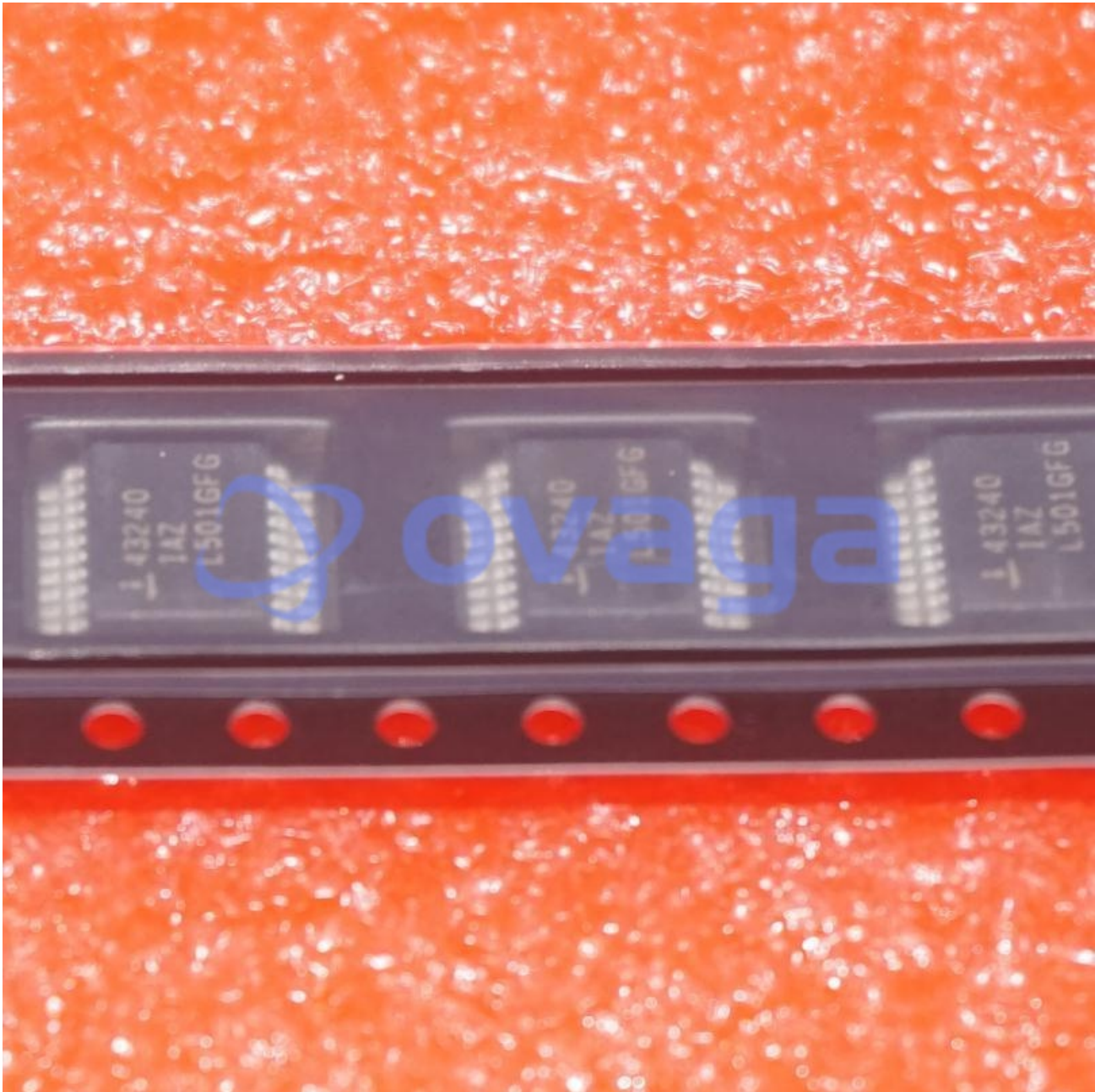
t_{OFF} : 40ns

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



[ISL3170EIUZ](#)

Renesas Technology Corp
MSOP-10



[ISL99227FRZ-T](#)

Renesas Technology Corp
32-PowerWFQFN



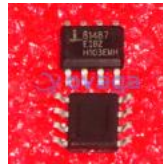
[ISL83078EIBZA](#)

Renesas Technology Corp
SOIC-8



[ISL83072EIBZA](#)

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[ISL81487EIBZ](#)

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TSSOP-24