

+15V/-15V Wide Analog Signal Range, High Current Capability 80mA (Typical)

Manufacturers	Renesas Technology Corp
Package/Case	CDIP-16
Product Type	Interface ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for HI1-5042-2 or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

This family of CMOS analog switches offers low resistance switching performance for analog voltages up to the supply rails and for signal currents up to 80mA. "ON" resistance is low and stays reasonably constant over the full range of operating signal voltage and current. rON remains exceptionally constant for input voltages between +5V and -5V and currents up to 50mA. Switch impedance also changes very little over temperature, particularly between 0oC and 75oC. rON is nominally 25Ω for HI-5049 and HI-5051 and 50Ω for HI-5042 through HI-5047. All devices provide break-before-make switching and are TTL and CMOS compatible for maximum application versatility. Performance is further enhanced by Dielectric Isolation processing which insures latch-free operation with very low input and output leakage currents (0.8nA at 25oC). This family of switches also features very low power operation (1.5mW at 25oC). There are 7 devices in this switch series which are differentiated by type of switch action and value of rON (see Functional Description Table). The HI-504X and HI-505X series switches can directly replace IH-5040 series devices, and are functionally compatible with the DG180 and DG190 family.

Features

Wide Analog Signal Range $\pm 15V$

Low "ON" Resistance 25Ω

High Current Capability 80mA

Break-Before-Make Switching

Turn-On Time 370ns

Turn-Off Time 280ns

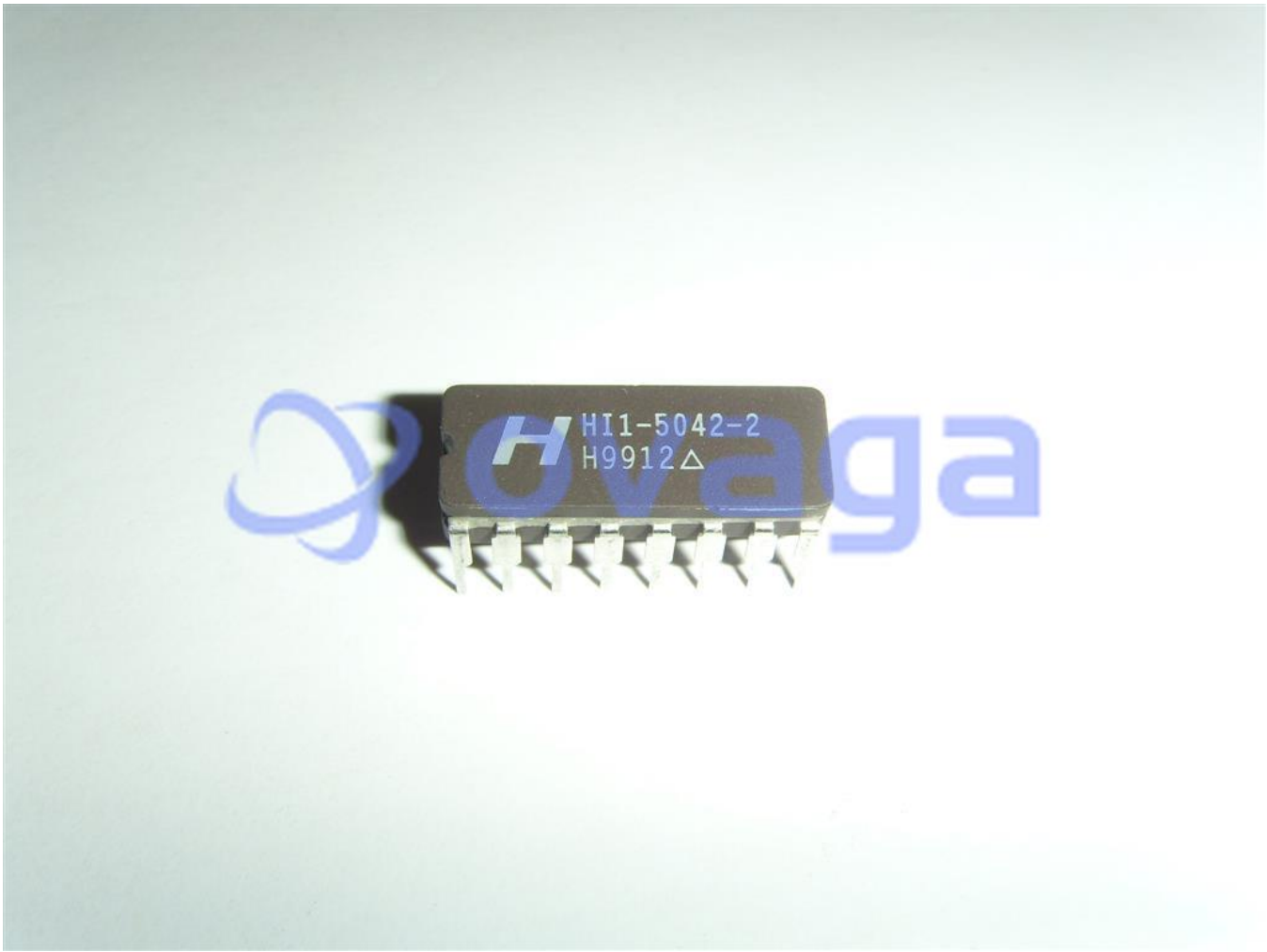
No Latch-Up

Input MOS Gates are Protected from Electrostatic Discharge

DTL, TTL, CMOS, PMOS Compatible

Pb-Free Available (RoHS Compliant)





Related Products



[HIN202EIBNZ](#)

Renesas Technology Corp
SOIC-16



[HI1-5051-2](#)

Renesas Technology Corp
CDIP-16



[HIN213ECAZ-T](#)

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[HI3-0547-5Z](#)

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