HI1-0546/883

Data Sheet

Single 16 and 8, Differential 8-Channel and 4-Channel CMOS Analog MUXs with Active Overvoltage Protection; Temperature Range: -55°C to 125°C; Package: 28-CerDIP

Images are for reference only

Manufacturers	Renesas Technology Corp
Package/Case	CDIP-28
Product Type	Integrated Circuits (ICs)
RoHS	
Lifecycle	

Please submit RFQ for HI1-0546/883 or Email to us: sales@ovaga.com We will contact you in 12 hours. RFQ

General Description

The HI-546/883 and HI-547/883 are analog multiplexers with active overvoltage protection and guaranteed rON matching. Analog input levels may greatly exceed either power supply without damaging the device or disturbing the signal path of other channels. Active protection circuitry assures that signal fidelity is maintained even under fault conditions that would destroy other multiplexers.Analog inputs can withstand constant 70VP-P levels with ±15V supplies. Digital inputs will also sustain continuous faults up to 4V greater than either supply. In addition, signal sources are protected from short circuiting should multiplexer supply loss occur. Each input presents 1kΩ of resistance under this condition. These features make the HI-546/883 and HI-547/883 ideal for use in systems where the analog inputs originate from external equipment or separately powered circuitry. Both devices are fabricated with 44V dielectrically isolated CMOS technology. The HI-546/883 is a single 16-channel, and the HI-547/883 is an 8-channel differential version. If input overvoltage protection is not needed, the HI-506/883 and HI-507/883 multiplexers are recommended. For further information see application note AN520.

Features

This circuit is processed in accordance to MIL-STD-883 and is fully conformant under the provisions of Paragraph 1.2.1.

No channel interaction during overvoltage

Guaranteed r_{ON} matching

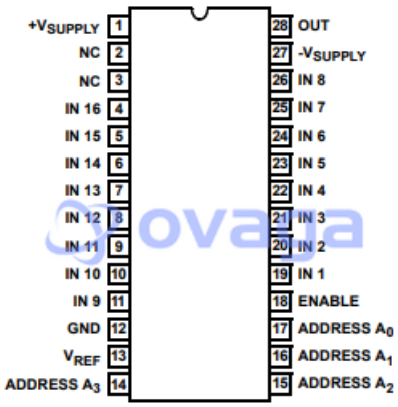
44V maximum power supply

Break-before-make switching

Analog signal range: ±15V

Access time (max): 1.0µs

Power dissipation (max): 45mW



Related Products

[M5M51008DFP-55HIBT]

Renesas Technology Corp

SOP-32

[HI1-0508A-8]

Renesas Technology Corp

CDIP-16

[HI4-0546/883]

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LCC-28

[M5M51008DVP-55HIST]

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DIP/SOP

[HI1-0509A-8]

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CDIP16

[HI1-0506A-8]

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CDIP28

[HI1-0549/883]

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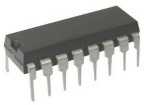
CDIP16



[HI1-0548/883]

Renesas Technology Corp

DIP16