

Analogue Switch, Quad Channel, 4 Channels, SPST, 35 ohm, 5V to 34V, DIP, 16 Pins

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



Images are for reference only

Please submit RFQ for DG411DJZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The DG411/883 series monolithic CMOS analog switches are drop-in replacements for the popular DG211 and DG212 series devices. They include four independent single pole throw (SPST) analog switches, and TTL and CMOS compatible digital inputs. These switches feature lower analog ON-resistance ( $<35\Omega$ ) and faster switch time ( $t_{ON} < 175\text{ns}$ ) compared to the DG211 or DG212. Charge injection has been reduced, simplifying sample and hold applications. The improvements in the DG411/883 series are made possible by using a high voltage silicon-gate process. An epitaxial layer prevents the latch-up associated with older CMOS technologies. The 44V maximum voltage range permits controlling 40VP-P signals. The power supplies may be single-ended from +5V to +34V, or split from  $\pm 5\text{V}$  to  $\pm 20\text{V}$ . The four switches are bilateral, equally matched for AC or bidirectional signals. The ON-resistance variation with analog signals is quite low over a  $\pm 15\text{V}$  analog input range. This permits independent control of turn-on and turn-off times for SPDT configurations, permitting “break-before-make” or “make-before-break” operation with a minimum of external logic.

## Features

ON-Resistance (Max)  $35\Omega$

Low Power Consumption ( $P_D$ )  $<35\mu W$

Fast Switching Action

$t_{ON}$  (Max) 175ns

$t_{OFF}$  (Max) 145ns

Low Charge Injection

Upgrade from DG211, DG212

TTL, CMOS Compatible

Single or Split Supply Operation

Pb-Free Plus Anneal Available (RoHS Compliant)

## Related Products



### [DG408DJZ](#)

Renesas Technology Corp  
DIP-16



### [DG406DYZ](#)

Renesas Technology Corp  
SOP-28



### [DG445DYZ](#)

Renesas Technology Corp  
SOIC-16



### [DG411DYZ](#)

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SOIC-16



### [DG409DYZ](#)

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### [DG408DVZ-T](#)

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### [DG413DYZ-T](#)

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