

Analogue Switch, 4 Channels, SPST, 85 ohm, 5V to 34V, SOIC, 16 Pins

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



Images are for reference only

Please submit RFQ for DG445DYZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

Maxim's redesigned DG444/DG445 analog switches now feature on-resistance matching (4 max) between switches and guaranteed on-resistance flatness over the signal range (9 max). These low on-resistance switches conduct equally well in either direction. They guarantee low charge injection (10pC max), low power consumption (35µW max), and an ESD tolerance of 2000V minimum per Method 3015.7. The new design offers lower off-leakage current over temperature (less than 5nA at +85°C). The DG444/DG445 are quad, single-pole/single-throw (SPST) analog switches. The DG444 has four normally closed switches and the DG445 has four normally open switches. Switching times are less than 250ns for tON and less than 70ns for tOFF. Operation is from a single +10V to +30V supply, or bipolar ±4.5V to ±20V supplies. Maxim's improved DG444/DG445 continue to be fabricated with a 44V silicon-gate process.

Features

ON Resistance (Max) 85Ω

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

Fast Switching Action

t_{ON} (Max) 250ns

t_{OFF} (Max, DG444) 140ns

Low Charge Injection

Upgrade from DG211, DG212

TTL, CMOS Compatible

Single or Split Supply Operation

Pb-Free Plus Anneal Available (RoHS Compliant)

Application

Audio-Signal Routing

Battery-Powered Applications

Communication Systems

Guidance and Control Systems

Heads-Up Displays

Military Radios

Modems/Faxes

PBX, PABX

Sample-and-Hold Circuits

Test Equipment



Related Products



[DG408DJZ](#)

Renesas Technology Corp
DIP-16



[DG409DYZ](#)

Renesas Technology Corp
SOIC-16



[DG406DYZ](#)

Renesas Technology Corp
SOP-28



[DG408DVZ-T](#)

Renesas Technology Corp
TSSOP-16



[DG413DYZ-T](#)

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[DG411DYZ](#)

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[DG407DYZ](#)

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SOIC-28