

ADVANCE INFORMATION

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MAXIM

Quad SPST Analog Switches

MXDG441/MXDG442

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General Description

The MXDG441/MXDG442 are quad single-pole-single-throw (SPST) analog switches. The MXDG441 is normally open (SPST, NO), while the MXDG442 is normally closed (SPST, NC). Both parts offer low on resistance (80Ω max) over the analog range, fast switching (120ns max), and low power dissipation (1.6mW max). Logic inputs are TTL compatible.

The MXDG441/MXDG442 are designed with a +44V maximum breakdown voltage rating that allows +30V peak-to-peak switch-off blocking capacity. These switches can be used with a single positive supply (+5V to +30V) or split supplies ($\pm 5V$ to $\pm 20V$) while retaining CMOS logic input compatibility and fast switching.

Applications

Sample-and-Hold Circuits
Winchester Disk Drives
Test Equipment
Communications Systems
PBX, PABX
Guidance and Control Systems
Heads-Up Displays
Military Radios
Battery-Operated Systems

Features

- ◆ 80Ω Max $r_{DS(ON)}$
- ◆ 120ns Max Switching
- ◆ 1.6mW Max Power Dissipation
- ◆ CMOS Logic Compatible
- ◆ Operation from Single (+5V to +30V) or Bipolar ($\pm 5V$ to $\pm 20V$) Supplies
- ◆ +30V Peak-to-Peak Switch-Off Blocking Capacity

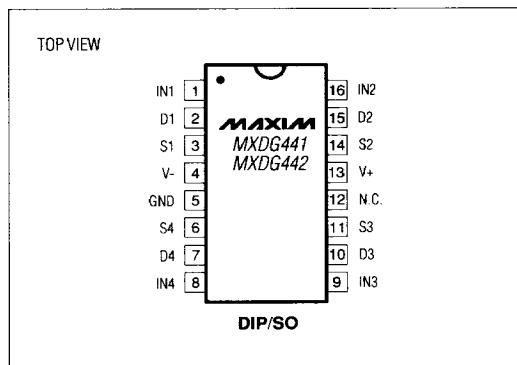
Ordering Information

PART	TEMP. RANGE	PIN-PACKAGE
MXDG441C/D	0°C to +70°C	Dice*
MXDG441DJ	-40°C to +85°C	16 Plastic DIP
MXDG441DY	-40°C to +85°C	16 Narrow SO
MXDG441DK	-40°C to +85°C	16 CERDIP
MXDG441AK	-55°C to +125°C	16 CERDIP**
MXDG442C/D	0°C to +70°C	Dice*
MXDG442DJ	-40°C to +85°C	16 Plastic DIP
MXDG442DY	-40°C to +85°C	16 Narrow SO
MXDG442DK	-40°C to +85°C	16 CERDIP
MXDG442AK	-55°C to +125°C	16 CERDIP**

* Contact factory for dice specifications.

** Contact factory for availability and processing to MIL-STD-883.

Pin Configuration



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