

# ADVANCE INFORMATION

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## Quad SPST Analog Switches

### 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 (±5V to ±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 (±5V to ±20V) Supplies
- ◆ +30V Peak-to-Peak Switch-Off Blocking Capacity

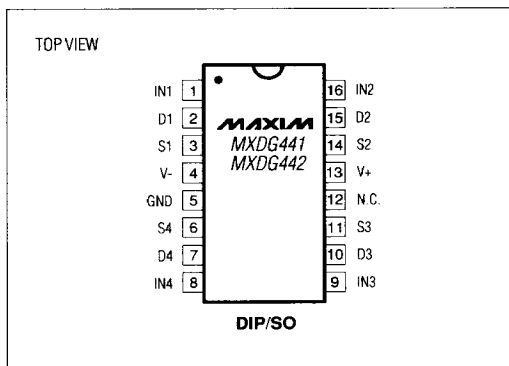
### Ordering Information

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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