

# ADVANCE INFORMATION

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# MAXIM

## Quad SPST Analog Switches

### General Description

The MXDG444/MXDG445 are quad single-pole-single-throw (SPST) analog switches. The MXDG444 is normally open (SPST, NO), while the MXDG445 is normally closed (SPST, NC). Both parts offer low on resistance ( $85\Omega$  max) over the analog range, fast switching (120ns max), and low power dissipation (0.035mW max). Logic inputs are TTL compatible.

The MXDG444/MXDG445 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

- ◆ **85 $\Omega$  Max  $r_{DS(ON)}$**
- ◆ **120ns Max Switching**
- ◆ **0.035mW 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**

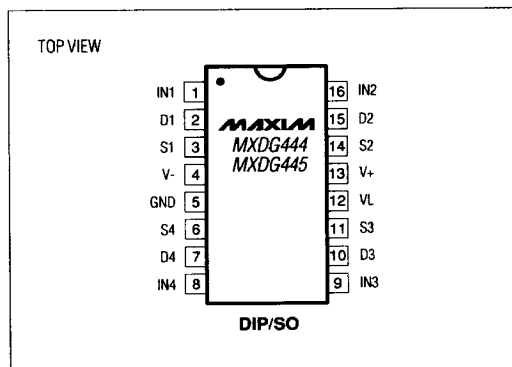
### Ordering Information

PART	TEMP. RANGE	PIN-PACKAGE
MXDG444C/D	0°C to +70°C	Dice*
MXDG444DJ	-40°C to +85°C	16 Plastic DIP
MXDG444DY	-40°C to +85°C	16 Narrow SO
MXDG444DK	-40°C to +85°C	16 CERDIP
MXDG444AK	-55°C to +125°C	16 CERDIP**
MXDG445C/D	0°C to +70°C	Dice*
MXDG445DJ	-40°C to +85°C	16 Plastic DIP
MXDG445DY	-40°C to +85°C	16 Narrow SO
MXDG445DK	-40°C to +85°C	16 CERDIP
MXDG445AK	-55°C to +125°C	16 CERDIP**

\* Contact factory for dice specifications.

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

### Pin Configuration



MXDG444/MXDG445

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