



High-Bandwidth, Quad DPDT Switches

MAX4760/MAX4760A/MAX4761/MAX4761A

General Description

The MAX4760/MAX4760A/MAX4761/MAX4761A (DPDT) analog switches operate from a single +1.8V to +5.5V supply. These switches feature a low 54pF (typ) capacitance for high-speed data switching applications.

The MAX4760/MAX4760A are quad double-pole/double-throw (DPDT) switches, and the MAX4761/MAX4761A are octal single-pole/double-throw (SPDT) switches. They have eight 2.0Ω (typ) on-resistance, low-capacitance switches to route audio and data signals. The MAX4760/MAX4760A have four logic inputs to control the switches in pairs. The MAX4761/MAX4761A have one logic control input and an enable input (\bar{EN}) to disable the switches.

The MAX4760/MAX4760A/MAX4761/MAX4761A are available in a small 36-pin (6mm x 6mm) TQFN and 36-bump (3mm x 3mm) chip-scale package (UCSP™).

Applications

USB Signal Switching

Audio-Signal Switching

Cellular Phones

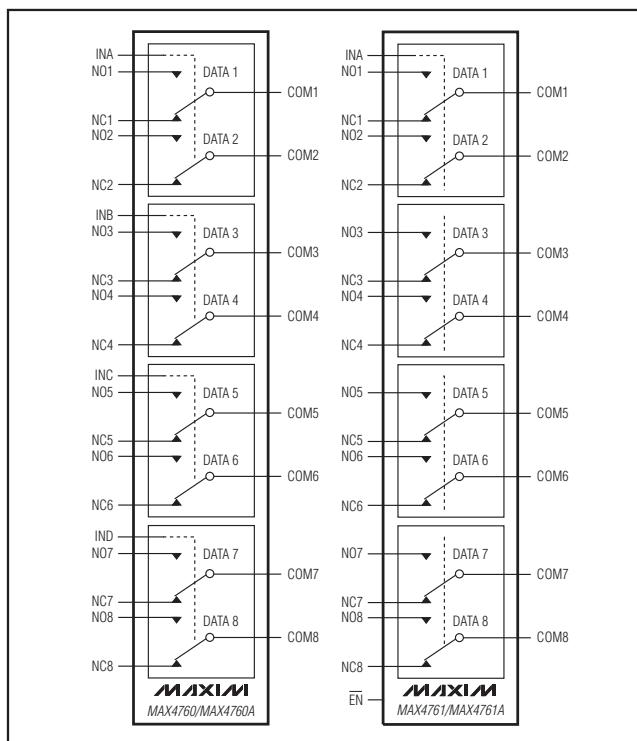
PDA/Handheld Devices

Notebook Computers

Features

- ◆ USB 1.1 and USB 2.0 (Full Speed 12Mbps) Signal-Switching Compliant
- ◆ Data and Audio Signal Routing
- ◆ Low-Capacitance Data Switches
- ◆ Less than 0.2ns Skew
- ◆ -3dB Bandwidth: 150MHz (typ)
- ◆ 0.2Ω (typ) Channel-to-Channel Matching
- ◆ 0.8Ω (typ) On-Resistance Flatness
- ◆ Rail-to-Rail Signal Handling
- ◆ 0.03% (typ) THD
- ◆ +1.8V to +5.5V Supply Range
- ◆ Low Supply Current with 1.8V Logic Threshold (MAX4760A/MAX4761A)
- ◆ Tiny 36-Bump UCSP (3mm x 3mm)
- ◆ 36-Pin TQFN (6mm x 6mm)
- ◆ -40°C to +85°C Operating Temperature Range

Functional Diagrams



Ordering Information

PART	TEMP RANGE	PIN-PACKAGE
MAX4760EBX+T	-40°C to +85°C	36 UCSP
MAX4760ETX+T	-40°C to +85°C	36 TQFN-EP**
MAX4760AEWX+T	-40°C to +85°C	36 UCSP
MAX4760AETX+T*	-40°C to +85°C	36 TQFN-EP**
MAX4761EBX+T	-40°C to +85°C	36 UCSP
MAX4761ETX+T	-40°C to +85°C	36 TQFN-EP**
MAX4761AEBX+T*	-40°C to +85°C	36 UCSP
MAX4761AETX+T*	-40°C to +85°C	36 TQFN-EP**

*Future product—contact factory for availability.

**EP = Exposed Pad.

+Denotes a lead(Pb)-free/RoHS-compliant package.

T = Tape and reel.

Pin Configurations/Truth Tables and Typical Operating Circuit
appear at end of data sheet.

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For pricing, delivery, and ordering information, please contact Maxim Direct at 1-888-629-4642, or visit Maxim's website at www.maxim-ic.com.

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ABSOLUTE MAXIMUM RATINGS

(All voltages referenced to GND.)

V+	-0.3V to +6V
IN_, \bar{EN} (MAX4761)	-0.3V to +6V
IN_, \bar{EN} (MAX4761A)	.....	-0.3V to (V+ + 0.3V)
COM_, NO_, NC_ (Note 1)	.....	-0.3V to (V+ + 0.3V)
Continuous Current NO_, NC_, COM_	.....	$\pm 100\text{mA}$
Peak Current (pulsed at 1ms, 10% duty cycle)	.....	$\pm 200\text{mA}$
Peak Current (pulsed at 1ms, 50% duty cycle)	.....	$\pm 300\text{mA}$

Continuous Power Dissipation ($T_A = +70^\circ\text{C}$)	.....
36-Bump UCSP (derate 15.3mW/ $^\circ\text{C}$ above $+70^\circ\text{C}$)	.....	1221mW
36-Pin TQFN (derate 26.3mW/ $^\circ\text{C}$ above $+70^\circ\text{C}$)	.....	2105mW
Operating Temperature Range	.....	-40°C to +85°C
Junction Temperature	.....	+150°C
Storage Temperature Range	.....	-65°C to +150°C
Lead Temperature (soldering, 10s)	.....	+300°C
Bump Temperature (soldering)	.....
Infrared (15s)	.....	+220°C
Vapor Phase (60s)	.....	+215°C

Note 1: Signals on NO_, NC_, COM_ exceeding V+ or GND are clamped by internal diodes. Limit forward-diode current to maximum current rating.

Stresses beyond those listed under "Absolute Maximum Ratings" may cause permanent damage to the device. These are stress ratings only, and functional operation of the device at these or any other conditions beyond those indicated in the operational sections of the specifications is not implied. Exposure to absolute maximum rating conditions for extended periods may affect device reliability.

ELECTRICAL CHARACTERISTICS

(V+ = +2.7V to +5.25V, $T_A = -40^\circ\text{C}$ to $+85^\circ\text{C}$, unless otherwise noted. Typical values are at V+ = 3V, $T_A = +25^\circ\text{C}$.) (Notes 2, 3)

PARAMETER	SYMBOL	CONDITIONS	TA	MIN	TYP	MAX	UNITS
ANALOG SWITCH							
Analog Signal Range	$V_{COM_}$, $V_{NO_}$, $V_{NC_}$		T_{MIN} to T_{MAX}	0	V+	V	
On-Resistance	R_{ON}	V+ = 2.7V, $I_{COM_}$ = 10mA, $V_{NC_}$ or $V_{NO_}$ = 0V or V+ (Note 4)	+25°C	2.0	3.5		Ω
			T_{MIN} to T_{MAX}		4		
On-Resistance Match Between Channels	ΔR_{ON}	V+ = 2.7V, $I_{COM_}$ = 10mA, $V_{NO_}$ or $V_{NC_}$ = 1.5V (Notes 4, 5)	+25°C	0.2	0.4		Ω
			T_{MIN} to T_{MAX}		0.55		
On-Resistance Flatness	$R_{FLAT(ON)}$	V+ = 2.7V, $I_{COM_}$ = 10mA, $V_{NC_}$ or $V_{NO_}$ = 0V or V+ (Note 6)	+25°C	0.8	1.5		Ω
			T_{MIN} to T_{MAX}		1.8		
NO_, NC_ Off-Leakage Current	I_{NO_OFF} , I_{NC_OFF}	V+ = 3.6V; $V_{COM_}$ = 3.3V, 0.3V; $V_{NO_}$ or $V_{NC_}$ = 0.3V, 3.3V	+25°C	-5	+5		nA
			T_{MIN} to T_{MAX}	-25	+25		
COM_ Off-Leakage Current		V+ = 3.6V (MAX4761/MAX4761A); $V_{COM_}$ = 3.3V, 0.3V; $V_{NO_}$ or $V_{NC_}$ = 0.3V, 3.3V	+25°C	-5	0.1	+5	nA
			T_{MIN} to T_{MAX}	-25	+25		
COM_ On-Leakage Current	I_{COM_ON}	V+ = 3.6V; $V_{COM_}$ = 3.3V, 0.3V; $V_{NO_}$ or $V_{NC_}$ = 3.3V, 0.3V or unconnected	+25°C	-5	+5		nA
			T_{MIN} to T_{MAX}	-25	+25		
DYNAMIC							
Turn-On Time	t_{ON}	V _{NO_} or V _{NC_} = 1.5V; R_L = 50Ω; C_L = 35pF, Figure 2	MAX4760/ MAX4761	+25°C	45	140	
				T_{MIN} to T_{MAX}		150	ns
			MAX4760A/ MAX4761A	+25°C	400	800	
				T_{MIN} to T_{MAX}		800	ns

High-Bandwidth, Quad DPDT Switches

ELECTRICAL CHARACTERISTICS (continued)

($V_+ = +2.7V$ to $+5.25V$, $T_A = -40^\circ C$ to $+85^\circ C$, unless otherwise noted. Typical values are at $V_+ = 3V$, $T_A = +25^\circ C$.) (Notes 2, 3)

PARAMETER	SYMBOL	CONDITIONS	TA	MIN	TYP	MAX	UNITS
Turn-Off Time	t _{OFF}	$V_+ = 2.7V$, $V_{NO_}$ or $V_{NC_} = 1.5V$; $R_L = 50\Omega$; $C_L = 35pF$, Figure 2	+25°C	25	50		ns
			T _{MIN} to T _{MAX}		60		
			+25°C	300	800		ns
			T _{MIN} to T _{MAX}		800		
Break-Before-Make	t _{BBM}	$V_+ = 2.7V$, $V_{NO_}$ or $V_{NC_} = 1.5V$; $R_L = 50\Omega$, $C_L = 35pF$, Figure 3 (Note 7)	+25°C	100			ns
			T _{MIN} to T _{MAX}		2		
Skew	t _{SKEW}	$R_S = 39\Omega$, $C_L = 50pF$, Figure 4 (Note 7)	+25°C	0.2			ns
Charge Injection	Q	$V_{GEN} = 0V$, $R_{GEN} = 0V$, $C_L = 1.0nF$, Figure 5	+25°C	15			pC
On-Channel -3dB Bandwidth	BW	Signal = 0dBm, $C_L = 5pF$, $R_L = 50\Omega$	+25°C	150			MHz
Off-Isolation	V _{ISO}	$C_L = 5pF$, $R_L = 50\Omega$, $V_{COM_} = 1V_{P-P}$, $f = 100kHz$, Figure 6 (Note 8)	+25°C	80			dB
Crosstalk	V _{CT}	$C_L = 5pF$, $R_L = 50\Omega$, $V_{COM_} = 1V_{P-P}$, $f = 100kHz$, Figure 6 (Note 9)	+25°C	95			dB
Total Harmonic Distortion	THD	$f = 20Hz$ to $20kHz$, $V_{COM_} = 1V_{P-P}$, DC bias = $V_+/2$, $R_L = R_S = 600\Omega$	+25°C	0.03			%
NO __ , NC __ Off-Capacitance	C _{NO_(OFF)} , C _{NC_(OFF)}	$V_{NO_}$, $V_{NC_} = GND$, $f = 1MHz$, Figure 7	+25°C	25			pF
COM __ On-Capacitance	C _{COM(ON)}	$V_{NO_}$, $V_{NC_} = GND$, $f = 1MHz$, Figure 7	+25°C	54			pF
COM __ Off-Capacitance	C _{COM(OFF)}	$V_{COM_} = GND$, $f = 1MHz$ (MAX4761/ MAX4761A), Figure 7	+25°C	25			pF
DIGITAL I/O (IN__, EN__)							
Input-Logic High	V _{IH}	$V_+ = 2.7V$ to $3.6V$	T _{MIN} to T _{MAX}	1.4			V
		$V_+ = 3.6V$ to $5.5V$ (MAX4760A/MAX4761A)	T _{MIN} to T _{MAX}	1.6			
		$V_+ = 3.6V$ to $5.25V$ (MAX4760/MAX4761)	T _{MIN} to T _{MAX}	2.0			
Input-Logic Low	V _{IL}	$V_+ = 2.7V$ to $3.6V$	T _{MIN} to T _{MAX}	0.5			V
		$V_+ = 3.6V$ to $5.5V$ (MAX4760A/MAX4761A)	T _{MIN} to T _{MAX}	0.5			
		$V_+ = 3.6V$ to $5.25V$ (MAX4760/MAX4761)	T _{MIN} to T _{MAX}	0.6			
Input Leakage Current	I _{IN} , I _{EN}	$V_{IN} = 0V$ or V_+	T _{MIN} to T _{MAX}	1			µA

High-Bandwidth, Quad DPDT Switches

ELECTRICAL CHARACTERISTICS (continued)

($V_+ = +2.7V$ to $+5.25V$, $T_A = -40^\circ C$ to $+85^\circ C$, unless otherwise noted. Typical values are at $V_+ = 3V$, $T_A = +25^\circ C$.) (Notes 2, 3)

PARAMETER	SYMBOL	CONDITIONS	TA	MIN	TYP	MAX	UNITS
POWER SUPPLY							
Power-Supply Range	V_+		T_{MIN} to T_{MAX}	1.8	5.5		V
Power Supply Current	I_+	$V_+ = 4.3V$, $V_{IN_} = 0V$ or V_+ (MAX4760/MAX4761)	$+25^\circ C$	0.01			μA
			T_{MIN} to T_{MAX}		1.0		
		$V_+ = 5.5V$, $V_{IN_} = 0V$ or V_+ (MAX4760A/MAX4761A)	$+25^\circ C$	0.01			
			T_{MIN} to T_{MAX}		1.0		
		$V_+ = 5.5V$, $V_{IN_} = 1.8V$ (MAX4760A/MAX4761A)	$+25^\circ C$	5.5			
			T_{MIN} to T_{MAX}		12		

Note 2: The algebraic convention is used in this data sheet; the most negative value is shown in the minimum column.

Note 3: UCSP packages are 100% tested at $+25^\circ C$ and limits across the full temperature range are guaranteed by correlation and design. TQFN packages are 100% tested at $+85^\circ C$ and limits across the full temperature range are guaranteed by correlation and design.

Note 4: R_{ON} and ΔR_{ON} matching specifications are guaranteed by design.

Note 5: $\Delta R_{ON} = R_{ON(MAX)} - R_{ON(MIN)}$.

Note 6: Flatness is defined as the difference between the maximum and minimum value of on-resistance as measured over the specified analog signal ranges.

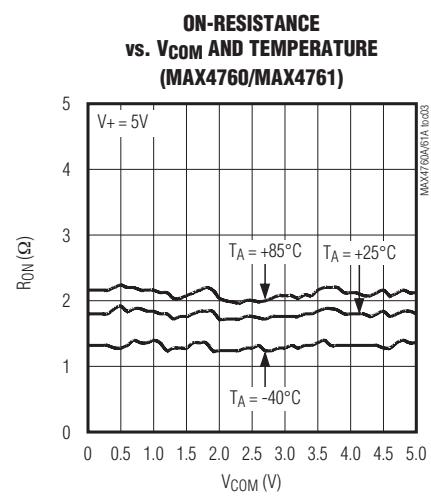
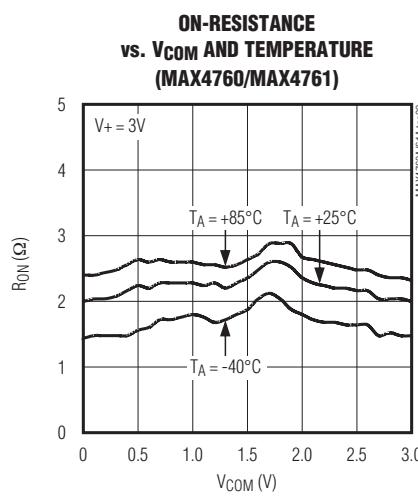
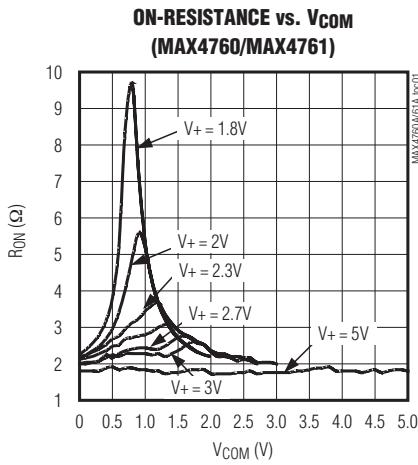
Note 7: Guaranteed by design, not production tested.

Note 8: Off-isolation = $20\log_{10} [V_{COM_}/(V_{NO_} \text{ or } V_{NC_})]$, $V_{COM_}$ = output, $V_{NO_}$ or $V_{NC_}$ = input to off switch.

Note 9: Between any two switches.

Typical Operating Characteristics

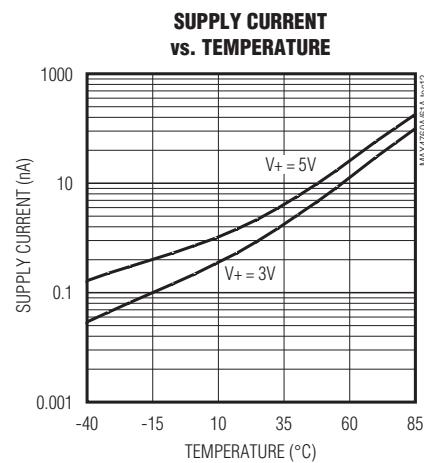
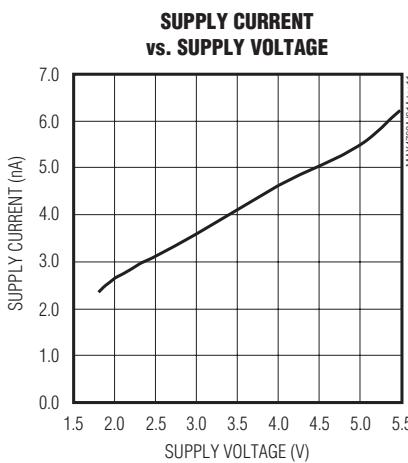
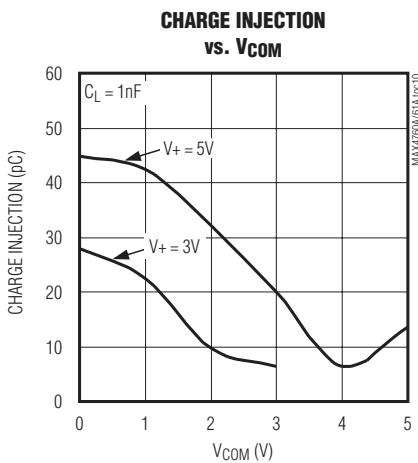
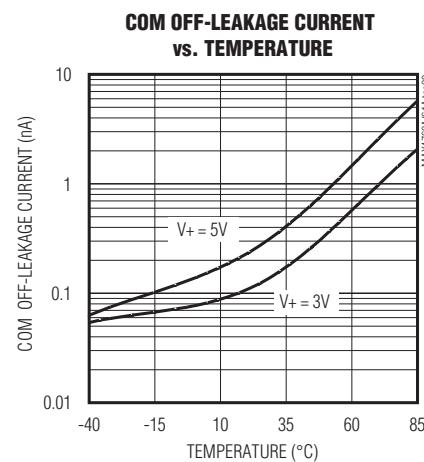
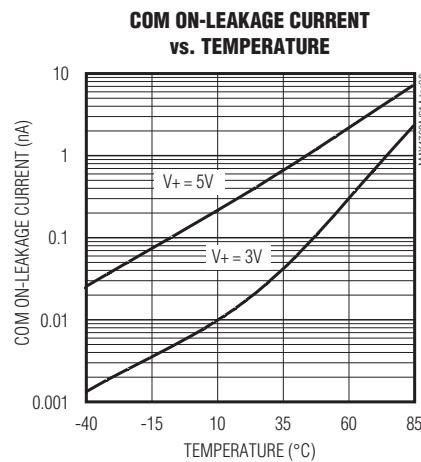
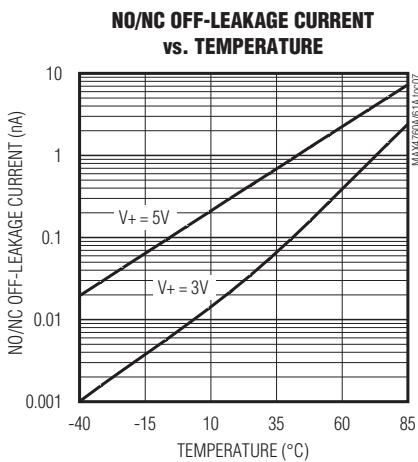
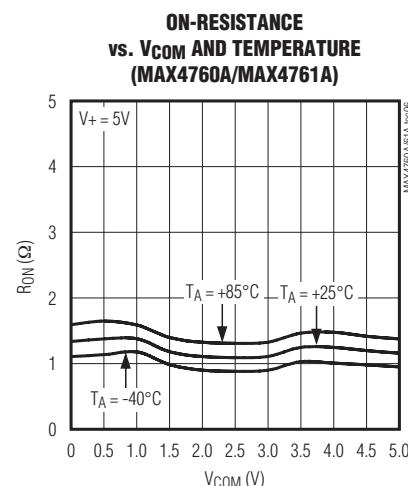
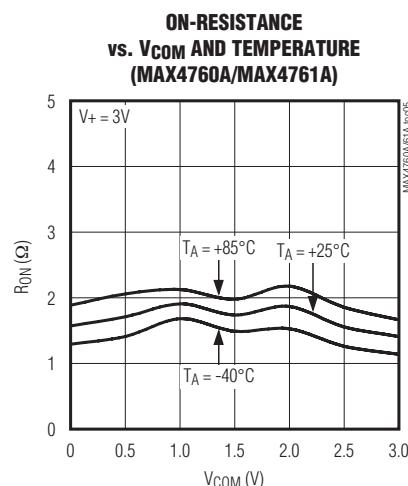
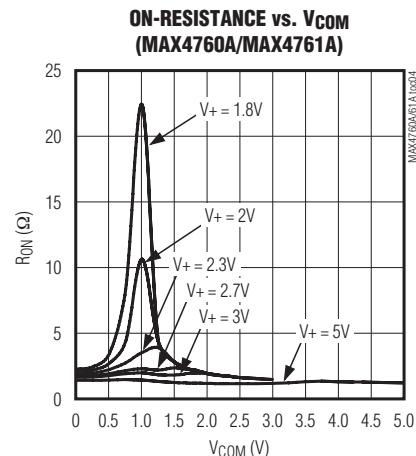
($V_+ = 3V$, $T_A = +25^\circ C$, unless otherwise noted.)



High-Bandwidth, Quad DPDT Switches

Typical Operating Characteristics (continued)

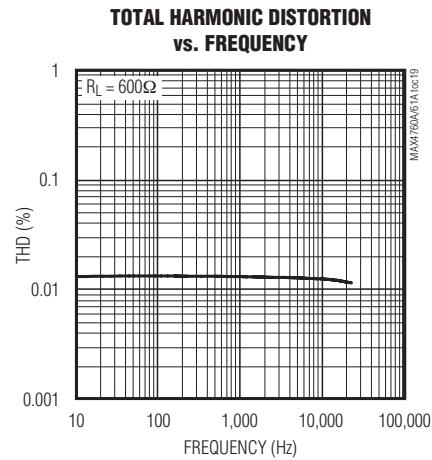
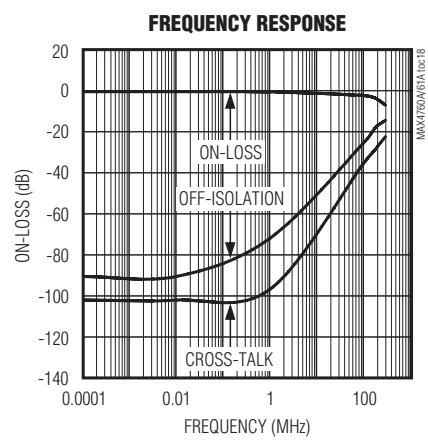
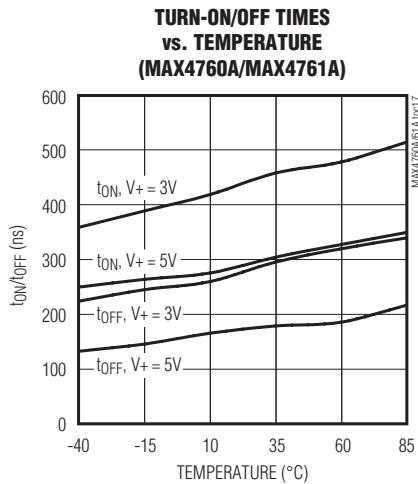
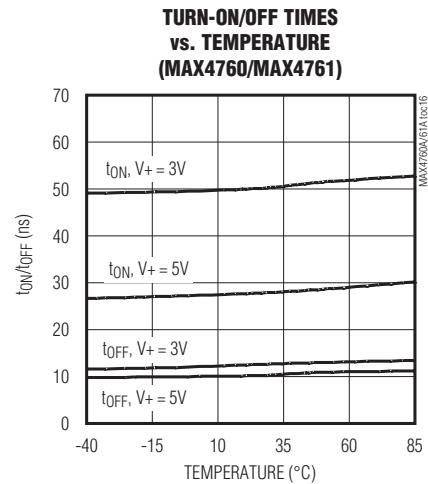
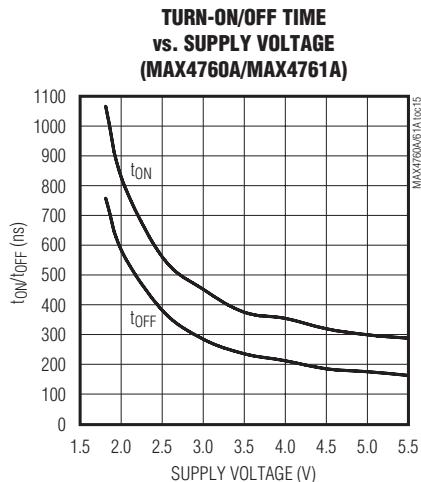
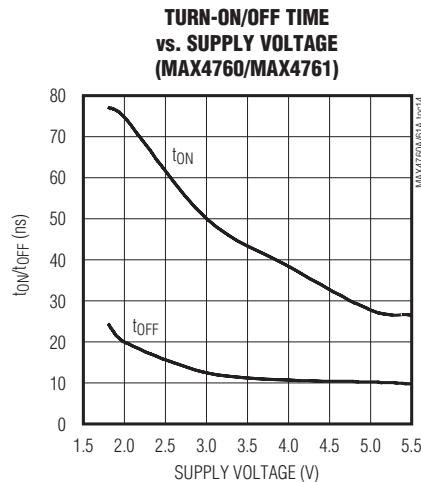
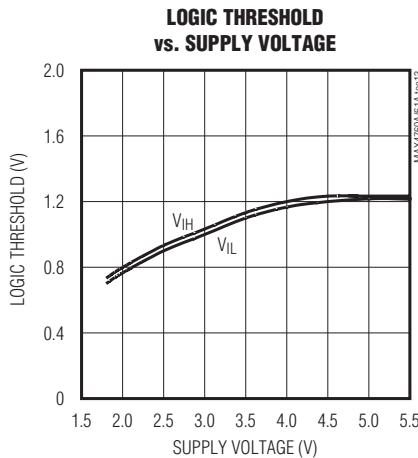
($V_+ = 3V$, $T_A = +25^\circ C$, unless otherwise noted.)



High-Bandwidth, Quad DPDT Switches

Typical Operating Characteristics (continued)

($V_+ = 3V$, $T_A = +25^\circ C$, unless otherwise noted.)



High-Bandwidth, Quad DPDT Switches

Pin Description

PIN				NAME	FUNCTION
TQFN-EP	UCSP	TQFN-EP	UCSP		
1	A1	1	A1	NC1	Analog Switch 1, Normally Closed Terminal 1
2	B2	2	B2	COM2	Analog Switch 2, Common Terminal 2
3	A2	3	A2	NC2	Analog Switch 2, Normally Closed Terminal 2
4	A3	4	A3	INA	Logic Control Digital Input for the MAX4760/MAX4760A Switch 1 and Switch 2. Digital control input for all MAX4761/MAX4761A switches.
5	C3, D4	5	C3, D4	V+	Positive Supply Voltage
6	A4	—	—	INB	Logic Control Digital Input for Switches 3 and 4
7	A5	7	A5	NC3	Analog Switch 3, Normally Closed Terminal 3
8	B5	8	B5	COM3	Analog Switch 3, Common Terminal 3
9	A6	9	A6	NC4	Analog Switch 4, Normally Closed Terminal 4
10	B6	10	B6	COM4	Analog Switch 4, Common Terminal 4
11, 14, 17, 29, 32, 35	—	6, 11, 14, 17, 24, 29, 32, 35	A4, F3	N.C.	No Connection. Leave N.C. unconnected.
12	C5	12	C5	NO3	Analog Switch 3, Normally Open Terminal 3
13	C6	13	C6	NO4	Analog Switch 4, Normally Open Terminal 4
15	D6	15	D6	NO8	Analog Switch 8, Normally Open Terminal 8
16	D5	16	D5	NO7	Analog Switch 7, Normally Open Terminal 7
18	E6	18	E6	COM8	Analog Switch 8, Common Terminal 8
19	F6	19	F6	NC8	Analog Switch 8, Normally Closed Terminal 8
20	E5	20	E5	COM7	Analog Switch 7, Common Terminal 7
21	F5	21	F5	NC7	Analog Switch 7, Normally Closed Terminal 7
22	F4	—	—	IND	Logic Control Digital Input for Switches 7 and 8
23	C4, D3	23	C4, D3	GND	Ground
24	F3	—	—	INC	Logic Control Digital Input for Switches 5 and 6
25	F2	25	F2	NC6	Analog Switch 6, Normally Closed Terminal 6
26	E2	26	E2	COM6	Analog Switch 6, Common Terminal 6
27	F1	27	F1	NC5	Analog Switch 5, Normally Closed Terminal 5
28	E1	28	E1	COM5	Analog Switch 5, Common Terminal 5
30	D2	30	D2	NO6	Analog Switch 6, Normally Open Terminal 6
31	D1	31	D1	NO5	Analog Switch 5, Normally Open Terminal 5
33	C1	33	C1	NO1	Analog Switch 1, Normally Open Terminal 1
34	C2	34	C2	NO2	Analog Switch 2, Normally Open Terminal 2
36	B1	36	B1	COM1	Analog Switch 1, Common Terminal 1
—	—	22	F4	EN	Output Enable, Active Low
—	—	—	—	EP	Exposed Pad (TQFN Only). Connect EP to GND.

High-Bandwidth, Quad DPDT Switches

Detailed Description

The MAX4760/MAX4760A quad double-pole/double-throw (DPDT) and the MAX4761/MAX4761A octal single-pole/double-throw (SPDT) analog switches operate from a single +1.8V to +5.5V supply. These devices are fully specified for +3V applications.

The MAX4760/MAX4760A/MAX4761/MAX4761A have a guaranteed 2.0Ω (typ) on-resistance to switch data or audio signals. The low 54pF (typ) capacitance and 0.2ns change in skew makes them ideal for data switching applications. The MAX4760/MAX4760A have four logic inputs to control two switches in pairs and the MAX4761/MAX4761A have one logic control input and an enable input (\overline{EN}) to disable the switches.

Applications Information

Digital Control Inputs

The MAX4760/MAX4760A/MAX4761/MAX4761A logic inputs accept up to +5.5V regardless of the supply voltage. For example, with a +3.3V supply, IN₋ can be driven low to GND and high to +5.5V, which allows mixed logic levels in a system. Driving the control logic inputs rail-to-rail also minimizes power consumption.

For the MAX4761/MAX4761A, drive \overline{EN} low to enable. When \overline{EN} is high, COM₋ is high impedance.

Analog Signal Levels

Analog signal inputs over the full voltage range (0V to V₊) are passed through the switch with minimal change in on-resistance (see the *Typical Operating Characteristics*). The switches are bidirectional so NO₋, NC₋, and COM₋ can be either inputs or outputs.

Power-Supply Bypassing

Power-supply bypassing improves noise margin and prevents switching noise from propagating from the V₊ supply to other components. A 0.1 μ F capacitor connected from V₊ to GND is adequate for most applications.

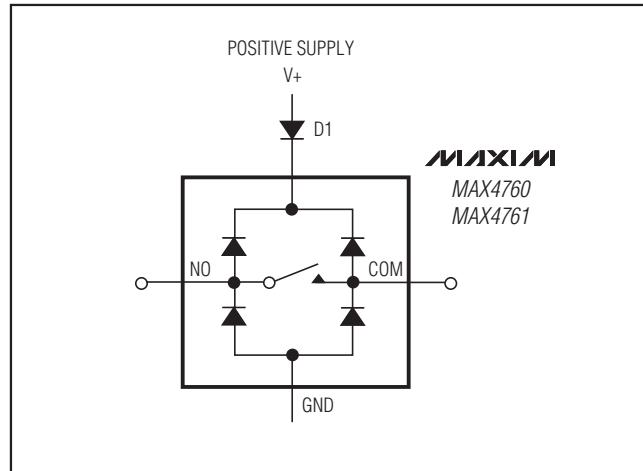


Figure 1. Overvoltage Protection Using an External Blocking Diode

Power-Supply Sequencing

CMOS devices require proper power-supply sequencing. Always apply V₊ before the analog signals, especially if the input signal is not current limited. If sequencing is not possible, and the input signal is not current limited to less than 20mA, add a small-signal diode (Figure 1). Adding the diode reduces the analog range to a diode drop (0.7V) below V₊ and increases the on-resistance slightly. The maximum supply voltage must not exceed +6V at any time.

UCSP Applications Information

For the latest application details on UCSP construction, dimensions, tape carrier information, printed circuit board techniques, bump-pad layout, and recommended reflow temperature profile, as well as the latest information on reliability testing results, refer to the Application Note 1891: *Wafer-Level Packaging (WLP) and Its Applications* available on Maxim's website at www.maxim-ic.com/ucsp.

High-Bandwidth, Quad DPDT Switches

Timing Circuits/Timing Diagrams

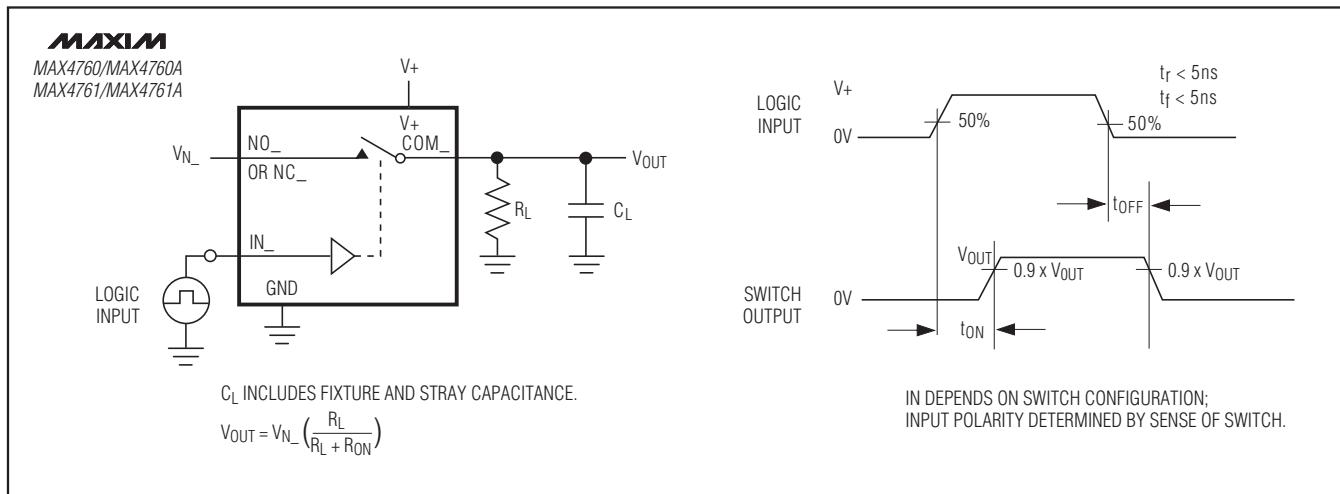


Figure 2. Switching Time

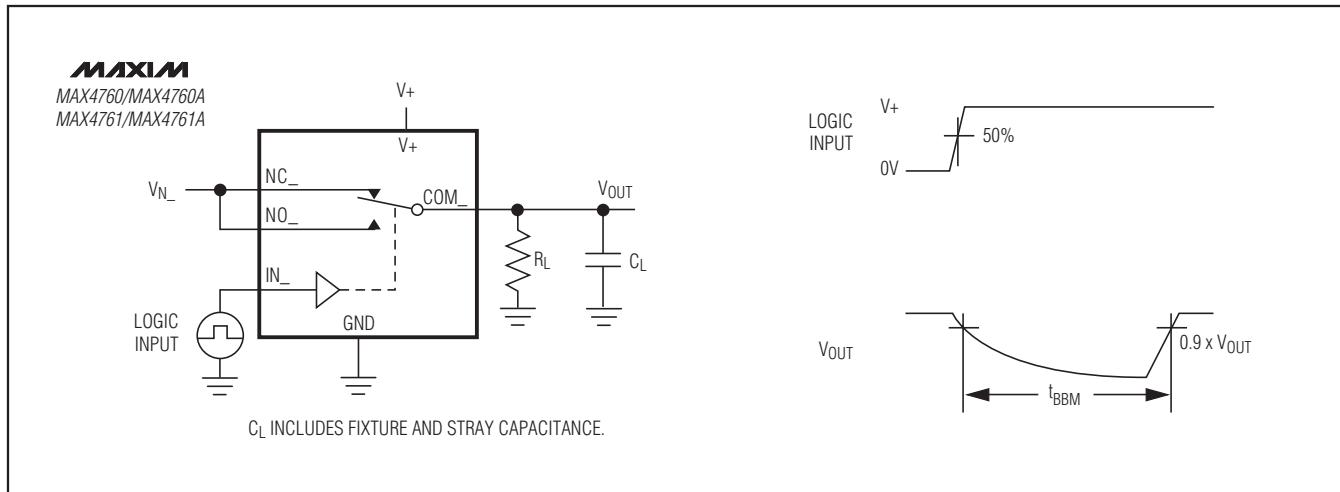


Figure 3. Break-Before-Make Interval

High-Bandwidth, Quad DPDT Switches

Timing Circuits/Timing Diagrams (continued)

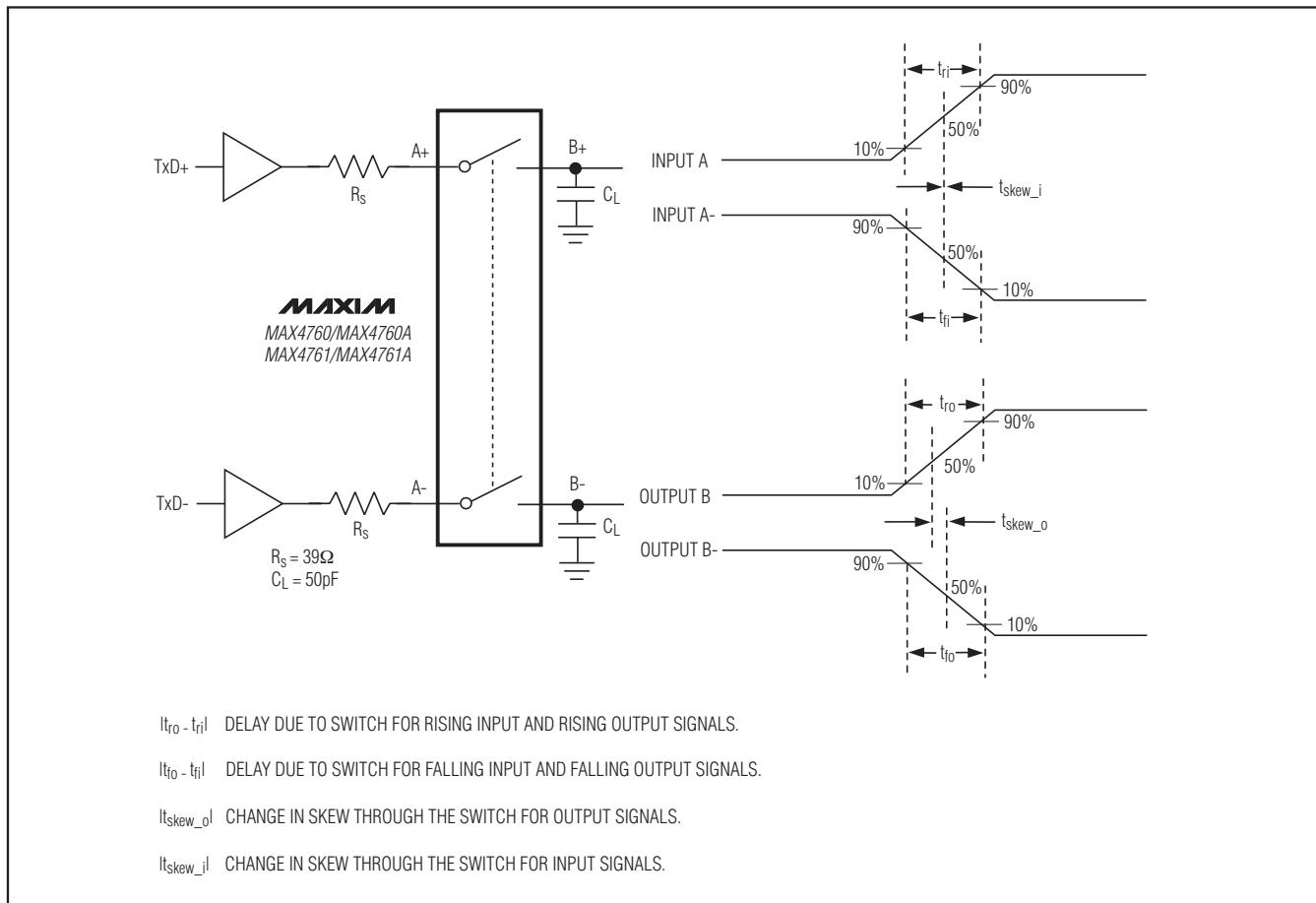


Figure 4. Input/Output Skew Timing Diagram

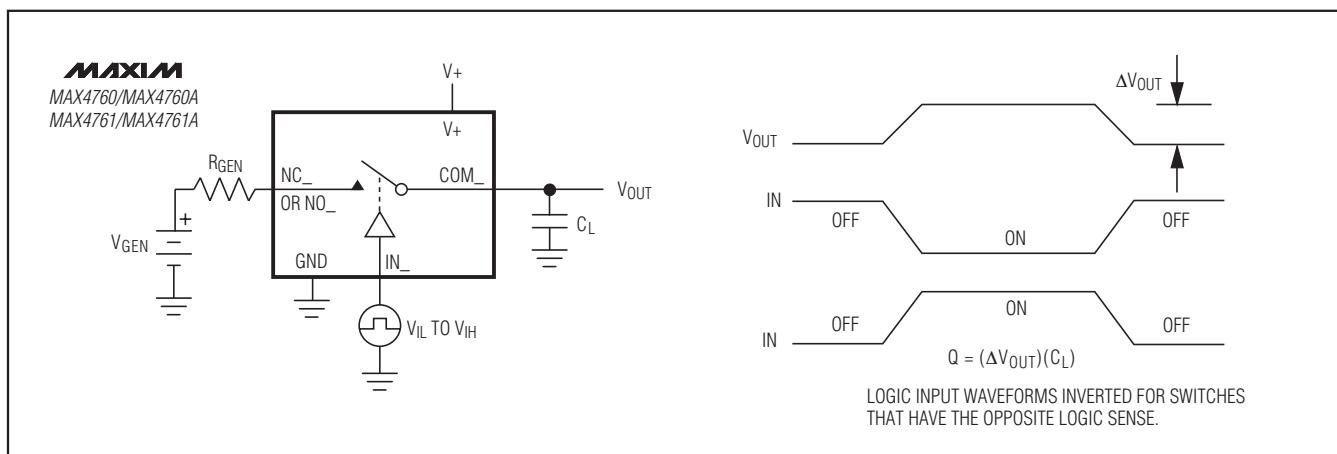


Figure 5. Charge Injection

High-Bandwidth, Quad DPDT Switches

Timing Circuits/Timing Diagrams (continued)

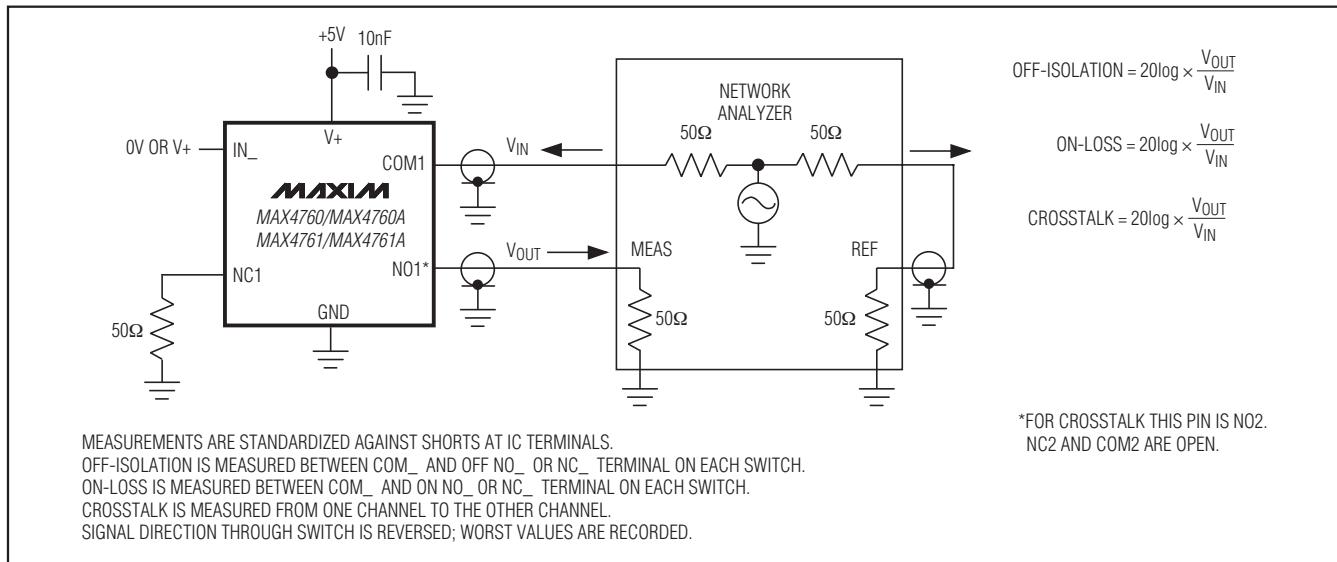


Figure 6. On-Loss, Off-Isolation, and Crosstalk

Typical Operating Circuit

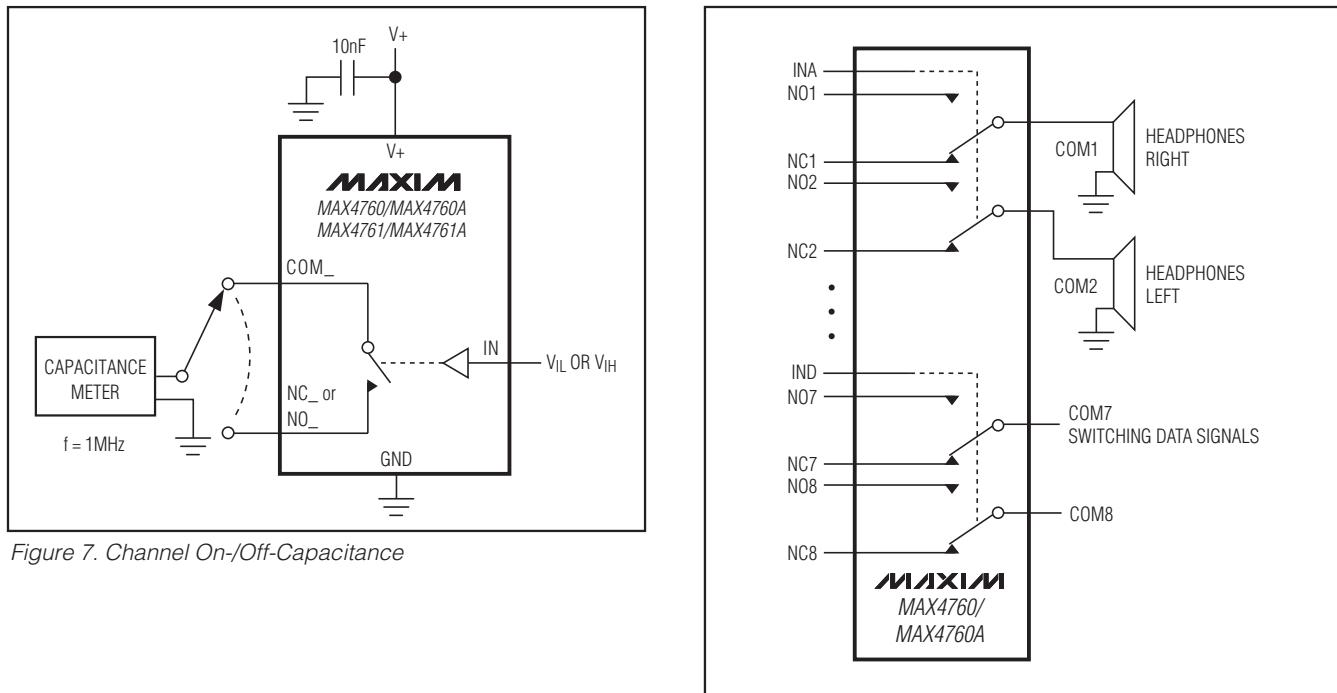


Figure 7. Channel On-/Off-Capacitance

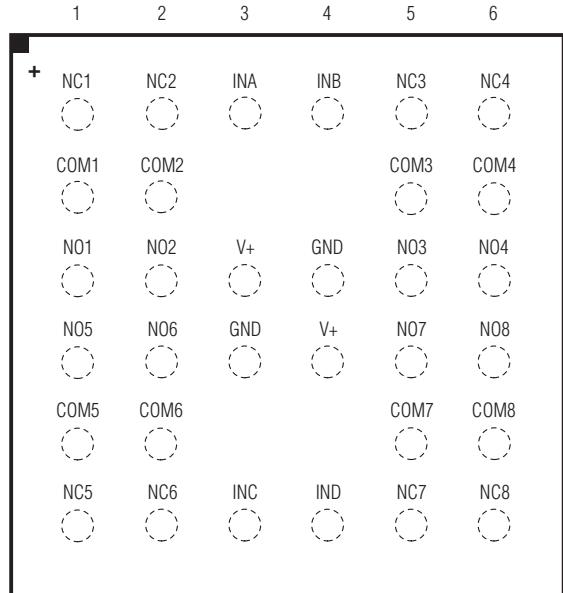
High-Bandwidth, Quad DPDT Switches

Pin Configurations/Truth Tables

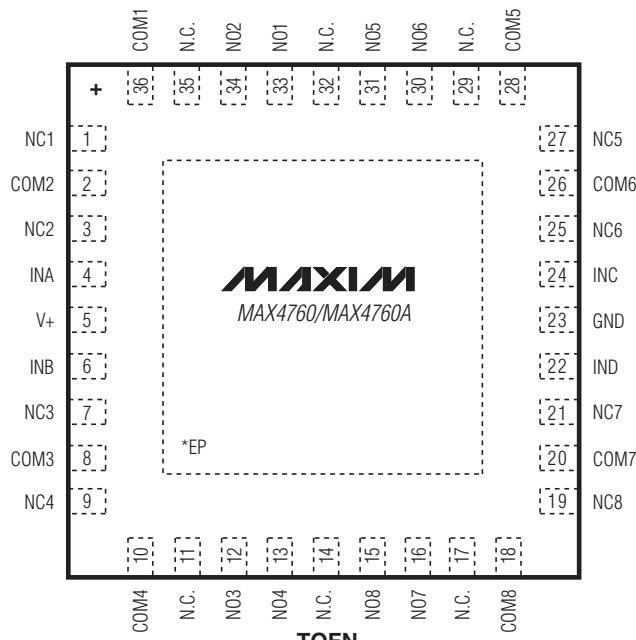
TOP VIEW

MAXIM
MAX4760/MAX4760A

(BUMP SIDE DOWN)



UCSP



*EXPOSED PADDLE CONNECTED TO GND.

MAX4760/MAX4760A

INA	NO1/NO2	NC1/NC2
LOW	OFF	ON
HIGH	ON	OFF
INB	NO3/NO4	NC3/NC4
LOW	OFF	ON
HIGH	ON	OFF
INC	NO5/NO6	NC5/NC6
LOW	OFF	ON
HIGH	ON	OFF
IND	NO7/NO8	NC7/NC8
LOW	OFF	ON
HIGH	ON	OFF

High-Bandwidth, Quad DPDT Switches

Pin Configurations/Truth Tables (continued)

TOP VIEW																									
 MAX4761/MAX4761A																									
(BUMP SIDE DOWN)																									
A	1	2	3	4	5																				
	+ NC1	NC2	INA	N.C.	NC3																				
B	COM1	COM2			COM3 COM4																				
C	N01	N02	V+	GND	N03 N04																				
D	N05	N06	GND	V+	N07 N08																				
E	COM5	COM6		COM7	COM8																				
F	NC5	NC6	N.C.	EN	NC7 NC8																				
UCSP																									
 MAX4761/MAX4761A																									
TQFN																									
NC1	1	36	COM1	27	NC5																				
COM2	2	35	N.C.	26	COM6																				
NC2	3	34	NO2	25	NC6																				
INA	4	33	NO1	24	N.C.																				
V+	5	32	NO5	23	GND																				
N.C.	6	30	NO6	22	EN																				
NC3	7	29	NO7	21	NC7																				
COM3	8	28	NO8	20	COM7																				
NC4	9	27	NC.	19	NC8																				
COM4	10	26	NC.																						
N.C.	11	25	NO3																						
NO3	12	24	NO4																						
NO4	13	23	NO8																						
NO8	15	22	NO7																						
NO7	16	21	NC.																						
NC.	17	20	NO8																						
NO8	18	19	NC.																						
*EXPOSED PADDLE CONNECTED TO GND.																									
MAX4761/MAX4761A																									
<table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>EN</th><th>INA</th><th>NO_</th><th>NC_</th></tr> </thead> <tbody> <tr> <td>LOW</td><td>LOW</td><td>OFF</td><td>ON</td></tr> <tr> <td>LOW</td><td>HIGH</td><td>ON</td><td>OFF</td></tr> <tr> <td>HIGH</td><td>X</td><td>OFF</td><td>OFF</td></tr> <tr> <td>HIGH</td><td>X</td><td>OFF</td><td>OFF</td></tr> </tbody> </table>						EN	INA	NO_	NC_	LOW	LOW	OFF	ON	LOW	HIGH	ON	OFF	HIGH	X	OFF	OFF	HIGH	X	OFF	OFF
EN	INA	NO_	NC_																						
LOW	LOW	OFF	ON																						
LOW	HIGH	ON	OFF																						
HIGH	X	OFF	OFF																						
HIGH	X	OFF	OFF																						

Chip Information

PROCESS: CMOS

Package Information

For the latest package outline information and land patterns, go to www.maxim-ic.com/packages.

PACKAGE TYPE	PACKAGE CODE	DOCUMENT NO.
36 UCSP	B36-2	21-0082
36 TQFN-EP	T3666-3	21-0141

High-Bandwidth, Quad DPDT Switches

Revision History

REVISION NUMBER	REVISION DATE	DESCRIPTION	PAGES CHANGED
4	4/07	Addition of MAX4760A/MAX4761A	1–14
5	4/09	Revised <i>Ordering Information</i> , <i>Electrical Characteristics</i> table, and <i>Pin Description</i> .	1, 3, 7

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