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Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





Precision, Quad, SPST Analog Switches

MAX364/MAX365

General Description

The MAX364/MAX365 are precision, quad, single-pole single-throw (SPST) analog switches. The MAX364 has four normally closed (NC), and the MAX365 has four normally open (NO) switches. Both parts offer low-channel on-resistance (less than 85Ω), guaranteed to match within 2Ω between channels and to remain flat over the analog signal range (Δ9Ω max). Both parts also offer low leakage (less than 500pA at +25°C and less than 4nA at +85°C) and fast switching (turn-on time less than 250ns and turn-off time less than 170ns).

The MAX364/MAX365 are fabricated with Maxim's new improved 44V silicon-gate process. Design improvements guarantee extremely low charge injection (10pC), low power consumption (35μW), and electrostatic discharge (ESD) greater than 2000V. The 44V maximum breakdown voltage allows rail-to-rail analog signal handling capability.

These monolithic switches operate with a single positive supply (+10V to +30V) or with split supplies (±4.5V to ±20V) while retaining CMOS-logic input compatibility and fast switching. CMOS inputs provide reduced input loading.

Applications

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

Features

- ♦ **Low On-Resistance:** < 45Ω Typical (85Ω Max)
- ♦ **Guaranteed Matched On-Resistance Between Channels:** < 2Ω
- ♦ **Guaranteed Flat On-Resistance over Full Analog Signal Range:** Δ9Ω Max
- ♦ **Guaranteed Charge Injection:** < 10pC
- ♦ **Guaranteed Off-Channel Leakage:** < 4nA at +85°C
- ♦ **ESD Guaranteed > 2000V per Method 3015.7**
- ♦ **Single-Supply Operation (+10V to +30V)**
Bipolar-Supply Operation (±4.5V to ±20V)
- ♦ **TTL-/CMOS-Logic Compatible**
- ♦ **Rail-to-Rail Analog Signal Handling Capability**

Ordering Information

PART	TEMP RANGE	PIN-PACKAGE
MAX364CPE	0°C to +70°C	16 Plastic DIP
MAX364CSE	0°C to +70°C	16 Narrow SO
MAX364C/D	0°C to +70°C	Dice*
MAX364ETE	-40°C to +85°C	16 Thin QFN (5mm x 5mm)
MAX364EPE	-40°C to +85°C	16 Plastic DIP
MAX364ESE	-40°C to +85°C	16 Narrow SO
MAX365CPE	0°C to +70°C	16 Plastic DIP
MAX365CSE	0°C to +70°C	16 Narrow SO
MAX365C/D	0°C to +70°C	Dice*
MAX365ETE	-40°C to +85°C	16 Thin QFN (5mm x 5mm)
MAX365EPE	-40°C to +85°C	16 Plastic DIP
MAX365ESE	-40°C to +85°C	16 Narrow SO

* Contact factory for dice specifications.

Pin Configurations/Functional Diagrams/Truth Tables

TOP VIEW

DIP/SO

MAX364	
LOGIC	SWITCH
0	ON
1	OFF

DIP/SO

MAX365	
LOGIC	SWITCH
0	OFF
1	ON

SWITCHES SHOWN FOR LOGIC '0' INPUT

Pin Configurations continued at end of data sheet.



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

Precision, Quad, SPST Analog Switches

ABSOLUTE MAXIMUM RATINGS

Voltage Referenced to V-		Continuous Power Dissipation (T _A = +70°C) (Note 1)
V+	44V	Plastic DIP (derate 10.53mW/°C above +70°C).....842mW
GND	25V	Thin QFN (derate 33.3mW/°C above +70°C).....2667mW
VL	(GND - 0.3V) to (V+ + 0.3V)	Narrow SO (derate 8.70mW/°C above +70°C)696mW
IN_, COM_, NO_, or NC_	(V- - 2V) to (V+ + 2V) or 30mA (whichever occurs first)	Operating Temperature Ranges:
Continuous Current (any terminal)	30mA	MAX36_C_
Peak Current COM_, NO_, or NC_	100mA (pulsed at 1ms, 10% duty cycle max)	MAX36_E_
ESD	2000V	Storage Temperature Range
		Lead Temperature (soldering, 10s)

Note 1: All leads are soldered or welded to PC board.

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—Dual Supplies

(V+ = 15V, V- = -15V, VL = 5V, GND = 0V, V_{INH} = 2.4V, V_{INL} = 0.8V, T_A = T_{MIN} to T_{MAX}, unless otherwise noted.)

PARAMETER	SYMBOL	CONDITIONS	MIN	TYP (Note 2)	MAX	UNITS
ANALOG						
Analog-Signal Range	V _{COM_} , V _{NO_} , V _{NC}	(Note 3)	-15		15	V
On Resistance	R _{ON}	COM_ to NO_ or NC, I _{COM} = -10mA, V _{COM} = 8.5V or -8.5V, V+ = 13.5V, V- = -13.5V	T _A = +25°C		50	85
			T _A = T _{MIN} to T _{MAX}			100
On Resistance Match Between Channels (Note 4)	R _{ON}	I _{COM} = -10mA, V _{COM} = 10V or -10V, V+ = 15V, V- = -15V	T _A = +25°C			2
			T _A = T _{MIN} to T _{MAX}			4
On Resistance Flatness (Note 4)	R _{ON}	I _{COM} = -10mA, V _{COM} = 5V or -5V, V+ = 15V, V- = -15V	T _A = +25°C			9
			T _A = T _{MIN} to T _{MAX}			15
NC_ or NO_ Leakage Current	I _{NO_} , I _{NC}	NO_ or NC_ terminal, V _{COM} = ±15.5V, V _{NO} or V _{NC} = ±15.5V, V+ = 16.5V, V- = -16.5V	T _A = +25°C		-0.50	0.01
			T _A = T _{MIN} to T _{MAX}		-4	4
COM_ Off Leakage Current	I _{NO} , I _{NC}	COM_ terminal, V _{NO} or V _{NC} = ±15.5V, V _{COM} = ±15.5V, V+ = 16.5V, V- = -16.5V	T _A = +25°C		-0.50	0.01
			T _A = T _{MIN} to T _{MAX}		-4	4
COM_, NC_ or NO_ On Leakage Current	I _{COM} or I _{NO} , I _{NC}	COM_ to NC_ or NO_ V _{COM} = ±15.5V, V _{NO} or V _{NC} = ±15.5V, V+ = 16.5V, V- = -16.5V	T _A = +25°C		-0.50	0.08
			T _A = T _{MIN} to T _{MAX}		-6	6
INPUT						
Input Current with Input Voltage High	I _{INH}	V _{IN_} = 2.4V, all others = 0.8V	-0.5	-0.00001	0.5	αA
Input Current with Input Voltage Low	I _{INL}	V _{IN_} = 0.8V, all others = 2.4V	-0.5	-0.00001	0.5	αA

Precision, Quad, SPST Analog Switches

MAX364/MAX365

ELECTRICAL CHARACTERISTICS—Dual Supplies (continued)

(V₊ = 15V, V₋ = -15V, V_L = 5V, GND = 0V, V_{INH} = 2.4V, V_{INL} = 0.8V, T_A = T_{MIN} to T_{MAX}, unless otherwise noted.)

PARAMETER	SYMBOL	CONDITIONS		MIN	TYP (Note 2)	MAX	UNITS
SUPPLY							
Power-Supply Range	V ₊ , V ₋			±4.5		±20.0	V
Positive Supply Current	I ₊	All channels on or off, V _{IN} = 0V or 5V, V ₊ = 16.5V, V ₋ = -16.5V	T _A = +25°C	-1	0.001	1	μA
			T _A = T _{MIN} to T _{MAX}	-5		5	
Negative Supply Current	I ₋	All channels on or off, V _{IN} = 0V or 5V, V ₊ = 16.5V, V ₋ = -16.5V	T _A = +25°C	-1	-0.0001	1	μA
			T _A = T _{MIN} to T _{MAX}	-5		5	
Logic Supply Current	I _L	All channels on or off, V _{IN} = 0V or 5V, V ₊ = 16.5V, V ₋ = -16.5V	T _A = +25°C	-1	0.001	1	μA
			T _A = T _{MIN} to T _{MAX}	-5		5	
Ground Current	I _{GND}	All channels on or off, V _{IN} = 0V or 5V, V ₊ = 16.5V, V ₋ = -16.5V	T _A = +25°C	-1	-0.0001	1	μA
			T _A = T _{MIN} to T _{MAX}	-5		5	
DYNAMIC							
Turn-On Time	t _{ON}	V _{NO} or V _{NC} = ±10V, Figure 2	T _A = +25°C		150	250	ns
Turn-Off Time	t _{OFF}	MAX364, V _{NO} or V _{NC} = ±10V, Figure 2	T _A = +25°C		90	120	ns
		MAX365, V _{NO} or V _{NC} = ±10V, Figure 2	T _A = +25°C		110	170	ns
Charge Injection	Q	C _L = 1nF, V _{GEN} = 0V, R _{GEN} = 0Ω, Figure 3	T _A = +25°C		5	10	pC
Off Isolation (Note 5)	OIRR	R _L = 50Ω, C _L = 5pF, f = 1MHz, Figure 4	T _A = +25°C		60		dB
Crosstalk (Note 6)		R _L = 50Ω, C _L = 5pF, f = 1MHz, Figure 5	T _A = +25°C		100		dB
NC_ or NO_ Off Capacitance	C _(OFF)	f = 1MHz, Figure 6	T _A = +25°C		4		pF
COM_ Off Capacitance	C _{COM(OFF)}	f = 1MHz, Figure 6	T _A = +25°C		4		pF
Channel-On Capacitance	C _{COM(ON)}	f = 1MHz, Figure 6	T _A = +25°C		16		pF

Precision, Quad, SPST Analog Switches

ELECTRICAL CHARACTERISTICS—Single Supply

(V₊ = 12V, V₋ = 0V, V_L = 5V, GND = 0V, V_{INH} = 2.4V, V_{INL} = 0.8V, T_A = T_{MIN} to T_{MAX}, unless otherwise noted.)

PARAMETER	SYMBOL	CONDITIONS		MIN	TYP (Note 2)	MAX	UNITS
ANALOG							
Analog Signal Range	V _{COM_} , V _{NO_} , V _{NC_}	(Note 3)		0		12	V
On Resistance	R _{ON}	COM ₋ to NO ₋ or NC ₋ , I _{NC} or I _{NO} = -10mA, V _L = 5.25V, V _{COM} = 3V, 8V, V ₊ = 10.8V	T _A = +25°C	100	160		Ω
			T _A = T _{MIN} to T _{MAX}		200		
SUPPLY							
Power-Supply Range	V ₊ , V ₋			10.8		24.0	V
Power-Supply Current	I ₊	All channels on or off, V _{IN} = 0V or 5V	T _A = +25°C	-1	0.001	1	μA
			T _A = T _{MIN} to T _{MAX}	-5		5	
Negative Supply Current	I ₋	All channels on or off, V _{IN} = 0V or 5V	T _A = +25°C	-1	-0.0001	1	μA
			T _A = T _{MIN} to T _{MAX}	-5		5	
Logic Supply Current	I _L	All channels on or off, V _{IN} = 0V or 5V	T _A = +25°C	-1	0.001	1	μA
			T _A = T _{MIN} to T _{MAX}	-5		5	
Ground Current	I _{GND}	All channels on or off, V _{IN} = 0V or 5V	T _A = +25°C	-1	-0.0001	1	μA
			T _A = T _{MIN} to T _{MAX}	-5		5	
DYNAMIC							
Turn-On Time	t _{ON}	V _{NC} or V _{NO} = 8V, Figure 2	T _A = +25°C	300	400		ns
Turn-Off Time	t _{OFF}	V _{NC} or V _{NO} = 8V, Figure 2	T _A = +25°C	60	200		ns
Charge Injection	Q	C _L = 1nF, V _{GEN} = 0V, R _{GEN} = 0Ω, Figure 3	T _A = +25°C	5	10		pC

Note 2: The algebraic convention, where the most negative value is a minimum and the most positive value a maximum, is used in this data sheet.

Note 3: Guaranteed by design.

Note 4: On resistance match between channels and flatness are guaranteed only with bipolar-supply operation.

Note 5: See Figure 2. Off Isolation = $20 \log_{10} \left(\frac{V_{COM}}{V_{NC} \text{ or } V_{NO}} \right)$, V_{COM} = output, V_{NO} or V_{NC} = input to off switch.

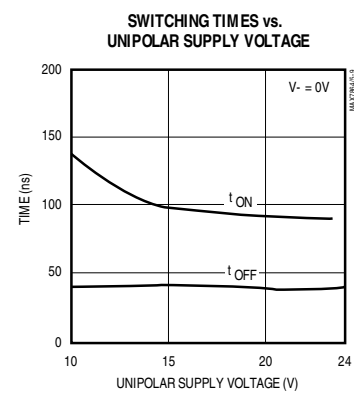
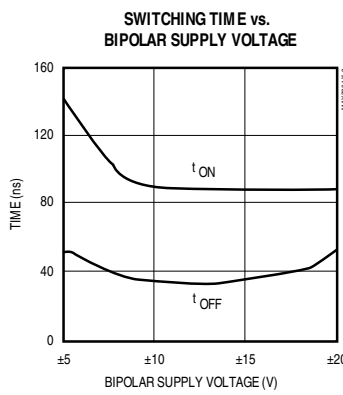
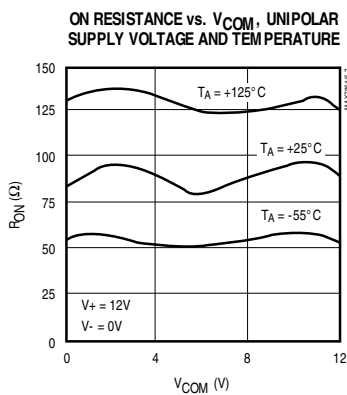
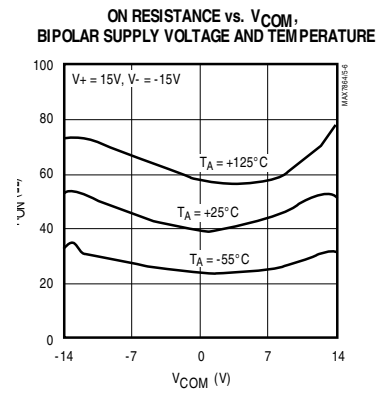
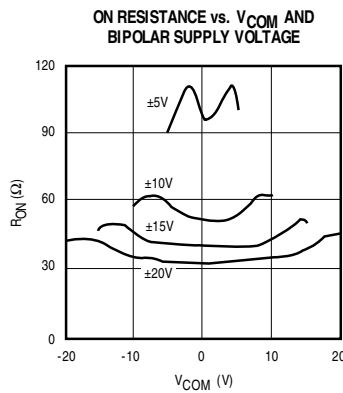
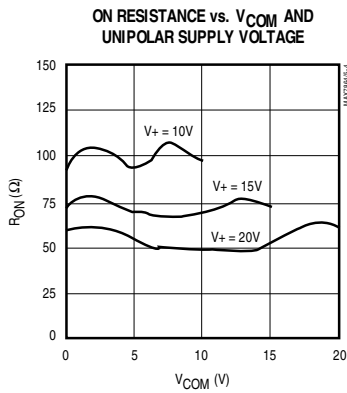
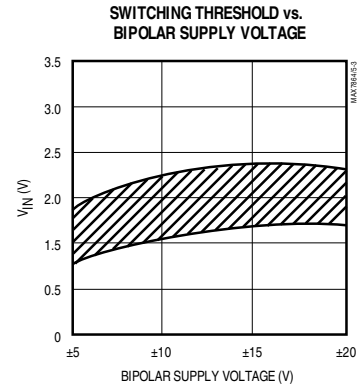
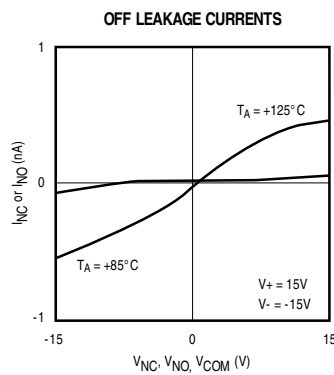
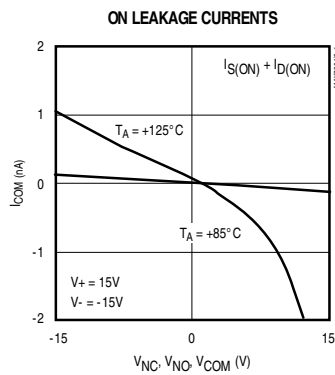
Note 6: Between any two switches. See Figure 5.

Precision, Quad, SPST Analog Switches

Typical Operating Characteristics

($T_A = +25^\circ\text{C}$, unless otherwise noted.)

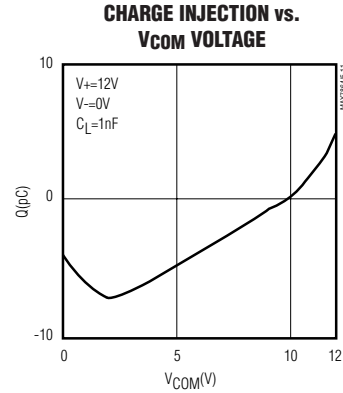
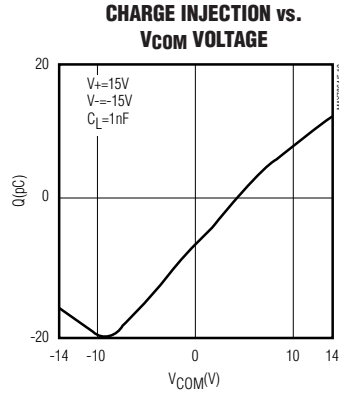
MAX364/MAX365



Precision, Quad, SPST Analog Switches

Typical Operating Characteristics

(T_A = +25°C, unless otherwise noted.)



Pin Description

PIN		NAME	FUNCTION
DIP/SO	QFN		
1, 16, 9, 8	15, 14, 7, 6	IN1–N4	Logic Control Input
2, 15, 10, 7	16, 13, 8, 5	COM1–COM4	Analog-Switch Common Terminal
3, 14, 11, 6	1, 12, 9, 4	NC1–NC4 or NO1–NO4	NC (normally closed, MAX364) NO (normally closed, MAX365) Analog-Switch Terminal
4	2	V-	Negative-Supply Voltage Input
5	3	GND	Ground
12	10	V _L	Logic-Supply Voltage Input
13	11	V+	Positive-Supply Voltage Input—Connected to Substrate
—	EP	PAD	Exposed Pad. Connect PAD to V+

Precision, Quad, SPST Analog Switches

MAX364/MAX365

Applications Information

Application Hints

1. Switches are open when power is off.
2. IN₋, COM₋, NO₋, and NC₋ should not exceed V₊ or V₋, even with the power off.
3. Switch leakage is from each analog switch terminal to V₊ or V₋, not to the other switch terminal.

Operation with Supply Voltages Other than ±15V

The main limitation of supply voltages other than ±15V is reduction in the analog signal range. The MAX364/MAX365 switches operate with ±5V to ±20V bipolar supplies. The *Typical Operating Characteristics* graphs show typical on resistance for ±15V, ±10V, and ±5V supplies. Switching times increase by a factor of two or more for ±5V operation. The MAX364/MAX365 operate from unipolar supplies of +10V to +24V. Both parts can be powered from a single +10V to +24V supply, as well as from unbalanced supplies, such as +24V and -5V. Connect V₋ to 0V when operating with a single supply. VL must be connected to +5V to be TTL compatible or to V₊ for CMOS logic input levels.

Overvoltage Protection

Proper power-supply sequencing is recommended for all CMOS devices. It is important not to exceed the absolute maximum ratings, because stresses beyond those listed may cause permanent damage to the devices. Always sequence V₊ on first, followed by VL, V₋, and logic inputs. If power-supply sequencing is not possible, protect the devices from overvoltage by

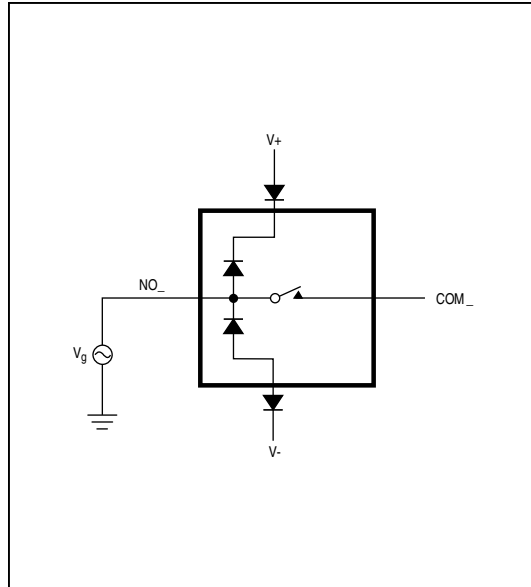


Figure 1. Overvoltage Protection Using Blocking Diodes

adding two small signal diodes in series with the supply pins (Figure 1). Adding the diodes reduces the analog signal range to 1V below V₊ and 1V below V₋, but low switch resistance and low leakage characteristics are unaffected. Device operation is unchanged, and the difference between V₊ to V₋ should not exceed +44V.

Precision, Quad, SPST Analog Switches

Test Circuits/Timing Diagrams

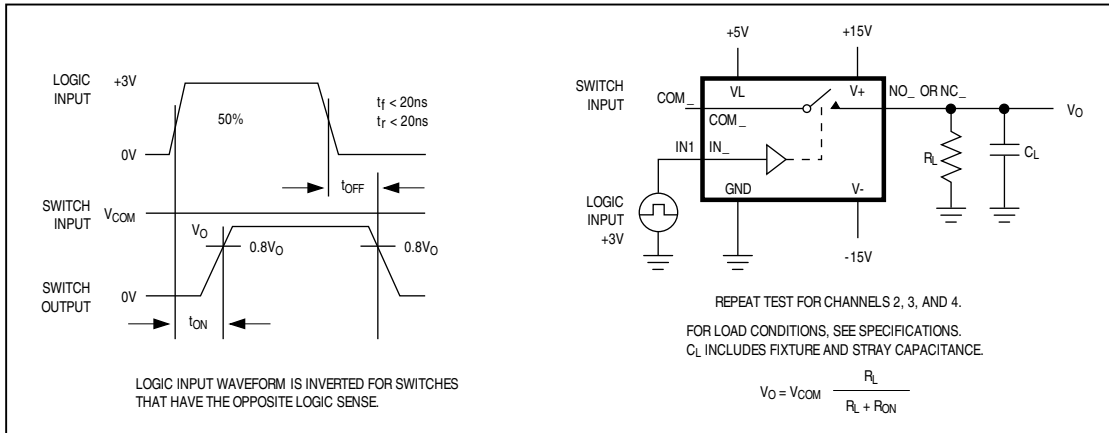


Figure 2. Switching-Time Test Circuit

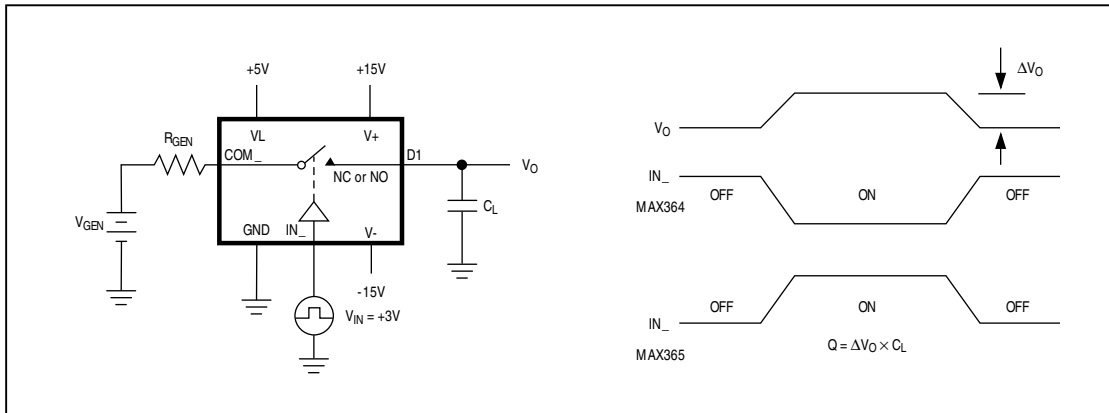


Figure 3. Charge-Injection Test Circuit

Precision, Quad, SPST Analog Switches

Test Circuits/Timing Diagrams (continued)

MAX364/MAX365

FREQUENCY TESTED	SIGNAL GENERATOR	ANALYZER
100Hz to 13MHz	AUTOMATIC SYNTHESIZER	SPECTRUM ANALYZER

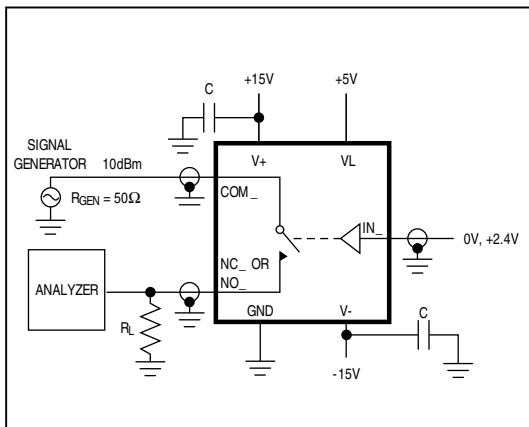


Figure 4. Off Isolation Test Circuit

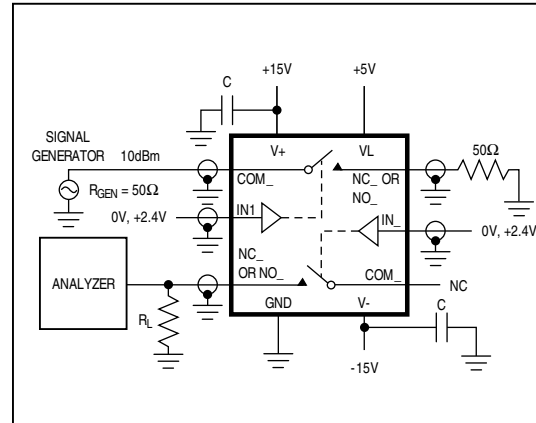


Figure 5. Crosstalk Test Circuit

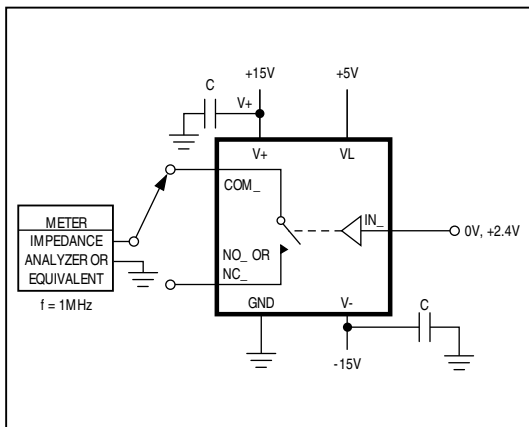


Figure 6. COM_, NC_, NO_ Off Capacitance

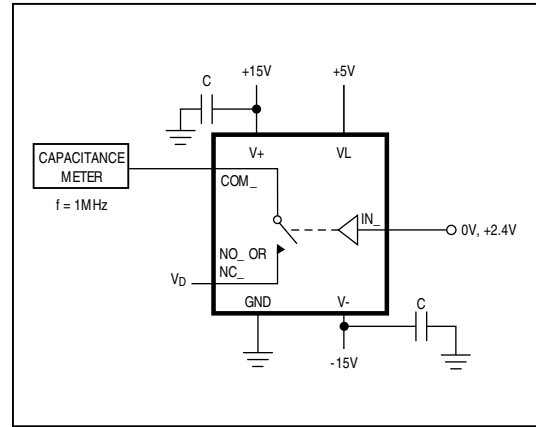
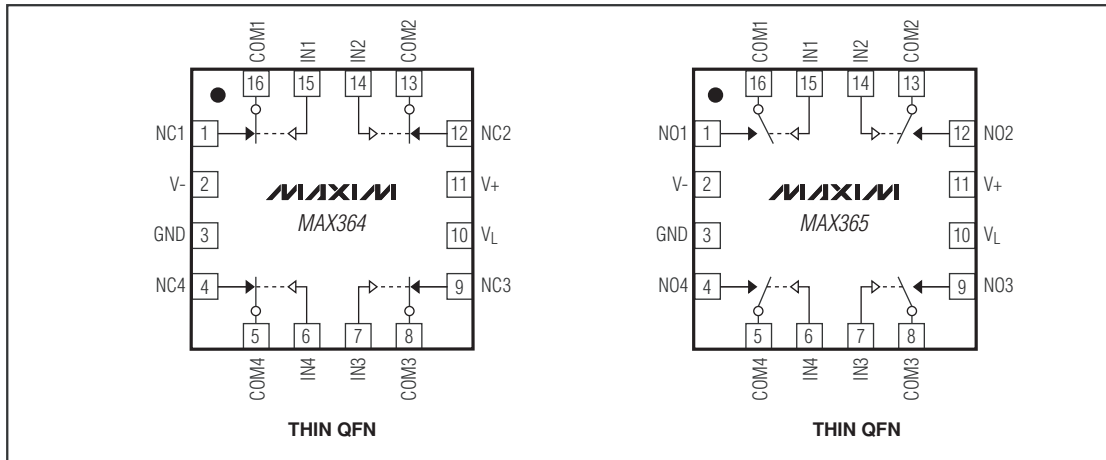


Figure 7. COM_, NC_, NO_ On Capacitance

Precision, Quad, SPST Analog Switches

MAX364/MAX365

Pin Configurations/Functional Diagrams (continued)

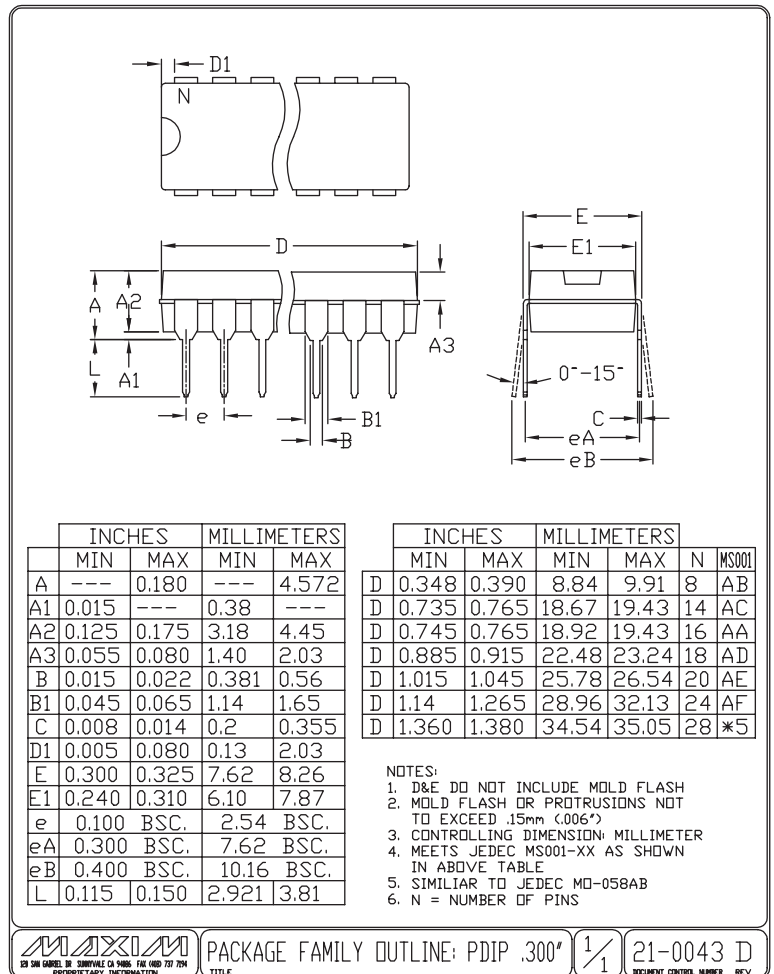


Precision, Quad, SPST Analog Switches

Package Information

(The package drawing(s) in this data sheet may not reflect the most current specifications. For the latest package outline information go to www.maxim-ic.com/packages.)

MAX364/MAX365



Precision, Quad, SPST Analog Switches

Package Information (continued)

(The package drawing(s) in this data sheet may not reflect the most current specifications. For the latest package outline information go to www.maxim-ic.com/packages.)

TOP VIEW

FRONT VIEW

SIDE VIEW

DIM	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.053	0.069	1.35	1.75
A1	0.004	0.010	0.10	0.25
B	0.014	0.019	0.35	0.49
C	0.007	0.010	0.19	0.25
e	0.050 BSC		1.27 BSC	
E	0.150	0.157	3.80	4.00
H	0.228	0.244	5.80	6.20
L	0.016	0.050	0.40	1.27

VARIATIONS:

DIM	INCHES		MILLIMETERS		N	MS012
	MIN	MAX	MIN	MAX		
D	0.189	0.197	4.80	5.00	8	AA
D	0.337	0.344	8.55	8.75	14	AB
D	0.386	0.394	9.80	10.00	16	AC

NOTES:

1. D&E DO NOT INCLUDE MOLD FLASH.
2. MOLD FLASH OR PROTRUSIONS NOT TO EXCEED 0.15mm (.006").
3. LEADS TO BE COPLANAR WITHIN 0.10mm (.004").
4. CONTROLLING DIMENSION: MILLIMETERS.
5. MEETS JEDEC MS012.
6. N = NUMBER OF PINS.

DALLAS SEMICONDUCTOR **MAXIM**

PROPRIETARY INFORMATION

TITLE: PACKAGE OUTLINE, .150" SOIC

APPROVAL:	DOCUMENT CONTROL NO: 21-0041	REV: B	1/1
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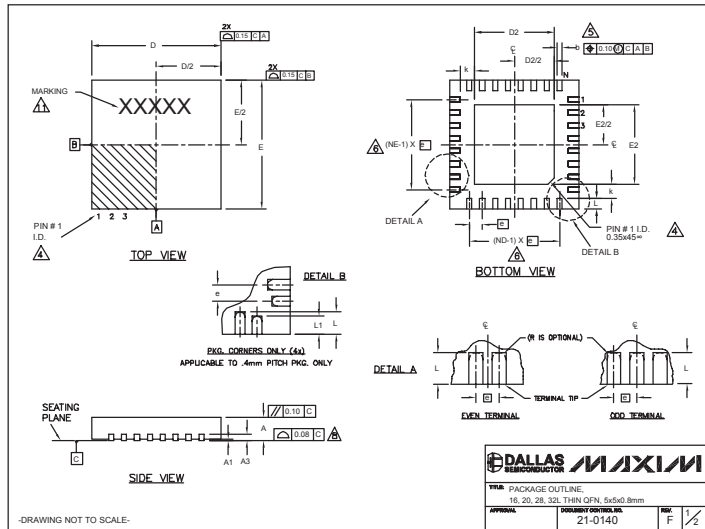
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Precision, Quad, SPST Analog Switches

Package Information (continued)

(The package drawing(s) in this data sheet may not reflect the most current specifications. For the latest package outline information go to www.maxim-ic.com/packages.)

MAX364/MAX365



COMMON DIMENSIONS									
PKG. SYMBOL	16L 5x5		20L 5x5		28L 5x5		32L 5x5		
	MIN.	NOM.	MAX.	MIN.	NOM.	MAX.	MIN.	NOM.	MAX.
A	0.70	0.75	0.80	0.70	0.75	0.80	0.70	0.75	0.80
A1	0	0.02	0.05	0	0.02	0.05	0	0.02	0.05
A3	0.20 REF.		0.20 REF.		0.20 REF.		0.20 REF.		0.20 REF.
b	0.25	0.30	0.35	0.25	0.30	0.35	0.25	0.30	0.25
D	4.90	5.00	5.10	4.90	5.00	5.10	4.90	5.00	5.10
E	4.90	5.00	5.10	4.90	5.00	5.10	4.90	5.00	5.10
e	0.80 BSC.		0.65 BSC.		0.50 BSC.		0.50 BSC.		
k	0.25	-	-	0.25	-	-	0.25	-	-
L	0.30	0.40	0.50	0.45	0.55	0.65	0.45	0.55	0.65
L1	-	-	-	-	-	-	-	-	-
N	16			20			28		32
ND	4			5			7		8
NE	4			5			7		8
JEDEC	WHHB		WHHC		WHHD-1		WHHD-2		

EXPOSED PAD VARIATIONS									
PKG. CODES	D2		E2		L	DOWN BOND ALLOWED			
	MIN.	NOM.	MAX.	MIN.	NOM.	MAX.			
T1655-1	3.00	3.10	3.20	3.00	3.10	3.20	NO		
T1655-2	3.00	3.10	3.20	3.00	3.10	3.20	YES		
T1655N-1	3.00	3.10	3.20	3.00	3.10	3.20	NO		
T2055-2	3.00	3.10	3.20	3.00	3.10	3.20	NO		
T2055-3	3.00	3.10	3.20	3.00	3.10	3.20	YES		
T2055-4	3.00	3.10	3.20	3.00	3.10	3.20	NO		
T2055-5	3.15	3.25	3.35	3.15	3.25	3.35	0.40 Y		
T2855-1	3.15	3.25	3.35	3.15	3.25	3.35	NO		
T2855-2	2.60	2.70	2.80	2.60	2.70	2.80	NO		
T2855-3	3.15	3.25	3.35	3.15	3.25	3.35	YES		
T2855-4	2.60	2.70	2.80	2.60	2.70	2.80	YES		
T2855-5	2.60	2.70	2.80	2.60	2.70	2.80	NO		
T2855-6	3.15	3.25	3.35	3.15	3.25	3.35	NO		
T2855-7	2.60	2.70	2.80	2.60	2.70	2.80	YES		
T2855-8	3.15	3.25	3.35	3.15	3.25	3.35	0.40 Y		
T2855N-1	3.15	3.25	3.35	3.15	3.25	3.35	N		
T3255-2	3.00	3.10	3.20	3.00	3.10	3.20	NO		
T3255-3	3.00	3.10	3.20	3.00	3.10	3.20	YES		
T3255-4	3.00	3.10	3.20	3.00	3.10	3.20	NO		
T3255N-1	3.00	3.10	3.20	3.00	3.10	3.20	NO		

NOTES:
 1. DIMENSIONING & TOLERANCING CONFORM TO ASME Y14.5M-1994.
 2. ALL DIMENSIONS ARE IN MILLIMETERS. ANGLES ARE IN DEGREES.
 3. N IS THE TOTAL NUMBER OF TERMINALS.
 4. THE TERMINAL #1 IDENTIFIER AND TERMINAL NUMBERING CONVENTION SHALL CONFORM TO JEDEC HS-18 (SPROCKET). DETAILS OF TERMINAL #1 IDENTIFIER ARE OPTIONAL, BUT MUST BE LOCATED WITHIN THE ZONE INDICATED. THE TERMINAL #1 IDENTIFIER MAY BE EITHER A MOLD OR MARKED FEATURE.
 5. DIMENSION A APPLIES TO METALLIZED TERMINAL AND IS MEASURED BETWEEN 0.25 mm AND 0.30 mm FROM TERMINAL TIP.
 6. ND AND NE REFER TO THE NUMBER OF TERMINALS ON EACH D AND E SIDE RESPECTIVELY.
 7. DEPOPULATION IS POSSIBLE IN A SYMMETRICAL FASHION.
 8. COPLANARITY APPLIES TO THE EXPOSED HEAT SINK SLUG AS WELL AS THE TERMINALS.
 9. DRAWING CONFORMS TO JEDEC MO220, EXCEPT EXPOSED PAD DIMENSION FOR T2855-1, T2855-3 AND T2855-6.
 10. WARPAGE SHALL NOT EXCEED 0.10 mm.
 11. MARKING IS FOR PACKAGE ORIENTATION REFERENCE ONLY.
 12. NUMBER OF LEADS SHOWN ARE FOR REFERENCE ONLY.

DALLAS SEMICONDUCTOR MAXIM
 TITLE: PACKAGE OUTLINE, 16, 20, 28, 32L THIN QFN, 5x5x0.8mm
 APPROVAL: 21-0140, REV: F, 1/2

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