

Quad SPST CMOS Analog Switches

ABSOLUTE MAXIMUM RATINGS (DG212)

V ₊ to V ₋	44V
V _{IN} to Ground.....	V ₋ , V ₊
V _L to Ground.....	-0.3V, 25V
V _S or V _D to V ₊	0, -40V
V _S or V _D to V ₋	0, 40V
V ₊ to Ground.....	25V
V ₋ to Ground.....	-25V
Current, Any Terminal Except S or D.....	30mA
Continuous Current, S or D.....	20mA
Peak Current, S or D (pulsed at 1ms 10% duty cycle max).....	70mA
Storage Temperature Range.....	-65°C to +125°C

Operating Temperature Range	
DG212C	0°C to +70°C
DG212D/E	-40°C to +85°C
Power Dissipation (T _A = +70°C) (Note 1)	
16-Pin Plastic Dip (derate 10.5mW/°C above +70°C) ..	842mW
16-Pin Narrow SO (derate 8.7mW/°C above +70°C) ..	696mW
16-Pin TSSOP (derate 9.4mW/°C above +70°C)	755mW
16-Pin QFN (5mm x 5mm) (derate 19.2mW/°C above +70°C).....	1538mW
16-Pin Thin QFN (derate 14.7mW/°C above +70°C).....	1177mW

Note 1: Device mounted with all leads soldered 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 (DG212)

(V₊ = +15V, V₋ = -15V, GND = 0, T_A = +25°C, unless otherwise noted.) (For more information on TYP values see Note 2.)

PARAMETER	SYMBOL	CONDITIONS		MIN	TYP	MAX	UNITS
SWITCH							
Analog Signal Range	V _{ANALOG}			-15		+15	V
Drain-Source ON-Resistance	R _{DS (ON)}	V _D = ±10V, V _{IN} = 2.4V, I _S = 1mA			115	175	Ω
Source OFF-Leakage Current	I _{S (OFF)}	V _{IN} = 0.8V	V _S = 14V, V _D = -14V		0.01	5.0	nA
			V _S = -14V, V _D = 14V	-5.0	-0.02		
Drain OFF-Leakage Current	I _{D (OFF)}	V _{IN} = 0.8V	V _S = 14V, V _D = -14V		0.01	5.0	
			V _S = -14V, V _D = 14V	-5.0	-0.02		
Drain ON-Leakage Current (Note 3)	I _{D (ON)}	V _S = V _D = 14V, V _{IN} = 2.4V			0.1	5.0	
		V _S = V _D = -14V, V _{IN} = 2.4V		-5.0	-0.15		
INPUT							
Input Current with Input Voltage High	I _{INH}	V _{IN} = 2.4V		-1.0	-0.0004		μA
		V _{IN} = 15V			0.003	1.0	
Input Current with Input Voltage Low	I _{INL}	V _{IN} = 0		-1.0	-0.0004		
DYNAMIC							
Turn-ON Time	t _{ON}	See Switching Time Test Circuit V _S = 2V, R _L = 1kΩ, C _L = 35pF			460	1000	ns
Turn-OFF Time	t _{OFF1}				360	500	
	t _{OFF2}				450		
Source OFF-Capacitance	C _{S (OFF)}	V _S = 0, V _{IN} = 0, f = 1MHz			5		pF
Drain OFF-Capacitance	C _{D (OFF)}	V _D = 0, V _{IN} = 0, f = 1MHz			5		
Channel ON-Capacitance	C _{D + S (ON)}	V _D = V _S = 0, V _{IN} = 5V, f = 1MHz			16		
OFF-Isolation (Note 4)	OIRR	V _{IN} = 0, R _L = 1kΩ, C _L = 15pF, V _S = 1VRMS, f = 100kHz			70		dB
Crosstalk (Channel to Channel)	CCRR				90		

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ELECTRICAL CHARACTERISTICS (DG212) (continued)

(V+ = +15V, V- = -15V, GND = 0, TA = +25°C, unless otherwise noted.) (For more information on TYP values see Note 2.)

PARAMETER	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNITS
SUPPLY						
Positive Supply Current	I+	VIN = 0 and 2.4V (all)		0.02	0.4	mA
Negative Supply Current	I-			0.01	0.4	
Logic Supply Current	IL			0	0	
Power-Supply Range for Continuous Operation	VOP		±4.5		±18.0	V

Note 2: Typical values are for DESIGN AID ONLY, not guaranteed nor subject to production testing.

Note 3: ID(ON) is leakage from driver into "ON" switch.

Note 4: OFF-Isolation = 20 log VS/VD, VS = input to OFF switch, VD = output.

ABSOLUTE MAXIMUM RATINGS (DG202)

Voltages Reference to V-

V+44V

GND25V

Digital Inputs (Note 1), VS, VD-2V to (V+ + 2V)

or 20mA, whichever occurs first

Current, Any Terminal Except S or D30mA

Continuous Current, S or D20mA

Peak Current, S or D

(pulsed at 1ms 10% duty cycle max)70mA

Operating Temperature Range

DG202C0°C to +70°C

DG202D/E-40°C to +85°C

DG202A-55°C to +125°C

Storage Temperature Range-65°C to +150°C

Power Dissipation (Note 2)

16-Pin Plastic Dip (derate 10.5mW/°C above +70°C) ...842mW

16-Pin SO (derate 8.7mW/°C above +70°C)696mW

16-Pin TSSOP (derate 9.4mW/°C above +70°C)755mW

16-Pin QFN (5 × 5)

(derate 19.2mW/°C above +70°C)1538mW

16-Pin CERP (derate 10.0mW/°C above +70°C)800mW

Note 1: Signals on S, D, or IN exceeding V+ or V- on Maxim's DG202 will be clamped by internal diodes, and are also internally current limited to 25mA.

Note 2: Device mounted with all leads soldered 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 (DG202)

(V+ = +15V, V- = -15V, GND = 0, TA = +25°C, unless otherwise noted.) (For more information on TYP values see Note 3.)

PARAMETER	SYMBOL	CONDITIONS		DG202A			DG202C, D, E			UNITS
				MIN	TYP	MAX	MIN	TYP	MAX	
SWITCH										
Analog Signal Range	V _{ANALOG}			-15		15	-15		15	V
Drain-Source ON Resistance	R _{DS (ON)}	V _D = ±10V, V _{IN} = 2.4V, I _S = 1mA			115	175		115	200	Ω
Source OFF-Leakage Current	I _{S (OFF)}	V _{IN} = 0.8V	V _S = 14V, V _D = -14V		0.01	1.0		0.01	5.0	nA
			V _S = -14V, V _D = 14V	-1.0	-0.02		-1.0	-0.02		
Drain OFF-Leakage Current	I _{D (OFF)}	V _{IN} = 0.8V	V _S = 14V, V _D = -14V		0.01	1.0		0.01	5.0	
			V _S = -14V, V _D = 14V	-1.0	-0.02		-1.0	-0.02		
Drain ON-Leakage Current (Note 4)	I _{D (ON)}	V _{IN} = 2.4V	V _S = -14V		0.1	1.0		0.1	1.0	
			V _S = 14V	-1.0			-5.0			

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ELECTRICAL CHARACTERISTICS (DG202) (continued)

(V+ = +15V, V- = -15V, GND = 0, TA = +25°C, unless otherwise noted.) (For more information on TYP values see Note 3.)

PARAMETER	SYMBOL	CONDITIONS	DG202A			DG202C, D, E			UNITS	
			MIN	TYP	MAX	MIN	TYP	MAX		
INPUT										
Input Current with Input Voltage High	I _{INH}	V _{IN} = 2.4V	-1.0	-0.0004		-1.0	-0.0004		μA	
		V _{IN} = 15V		0.003	1.0		0.003	1.0		
Input Current with Input Voltage Low	I _{INL}	V _{IN} = 0	-1.0	-0.0004		-1.0	-0.0004			
DYNAMIC										
Turn-ON Time	t _{ON}	See Figure 1 Switching Time Test Circuit		480	600		480	600	ns	
Turn-OFF Time	t _{OFF1}			370	450		370	450		
Charge Injection	Q	C _L = 1000pF, V _{GEN} = 0, R _{GEN} = 0		20			20		pC	
Source OFF-Capacitance	C _S (OFF)	V _S = 0,	f = 140kHz	5			5		pF	
Drain OFF-Capacitance	C _D (OFF)	V _{IN} = 0		5			5			
Channel ON-Capacitance	C _D (ON) + C _S (ON)	V _D = V _S = 0, V _{IN} = 5V		16			16			
OFF-Isolation		V _{IN} = 0, Z _L = 75Ω		70			70		dB	
Crosstalk (Channel to Channel)		V _S = 2.0V, f = 100kHz		90			90			
SUPPLY										
Positive Supply Current	I+	All channels ON or OFF		0.02	0.1		0.02	0.1	mA	
Negative Supply Current	I-	All channels ON or OFF		-0.1	-0.01		-0.1	-0.01		
Power-Supply Range for Continuous Operation	V _{OP}			±4.5		±18	±4.5		±18.0	V

Note 3: Typical values are for DESIGN AID ONLY, not guaranteed nor subject to production testing.

Note 4: I_D (ON) is leakage from driver into "ON" switch.

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ELECTRICAL CHARACTERISTICS (DG202)

(V+ = +15V, V- = -15V, GND = 0, **T_A** = full operating temperature range, unless otherwise noted.) (For more information on TYP values see Note 3.)

PARAMETER	SYMBOL	CONDITIONS		DG202A			DG202C, D, E			UNITS
				MIN	TYP	MAX	MIN	TYP	MAX	
SWITCH										
Analog Signal Range	V _{ANALOG}			-15		+15	-15		+15	V
Drain-Source ON Resistance (Note 5)	R _{DS (ON)}	V _D = ±10V, V _{IN} = 2.4V, I _S = 1mA				250			250	Ω
Source OFF-Leakage Current	I _{S (OFF)}	V _{IN} = 0.8V	V _S = 14V, V _D = -14V			100			100	nA
			V _S = -14V, V _D = 14V			-100			-100	
Drain OFF-Leakage Current	I _{D (OFF)}	V _{IN} = 0.8V	V _S = 14V, V _D = -14V			100			100	
			V _S = -14V, V _D = 14V			-100			-100	
Drain ON-Leakage Current (Note 6)	I _{D (ON)}	V _{IN} = 2.4V	V _S = -14V			200			200	
			V _D = 14V			-200			-200	
INPUT										
Input Current with Input Voltage High	I _{INH}	V _{IN} = 2.4V		-1.0			-1.0			μA
		V _{IN} = 15V		1.0			1.0			
Input Current with Input Voltage Low	I _{INL}	V _{IN} = 0		-1.0			-1.0			

Note 5: Electrical characteristics, such as On-Resistance, will change when power supplies other than ±15V, are used.

Note 6: I_{D (ON)} is leakage from driver into "ON" switch.

Pin Description

PIN		NAME	FUNCTION
DIP/SO/TSSOP	QFN/TQFN		
1, 16, 9, 8	15, 14, 7, 6	IN1–IN4	Input
2, 15, 10, 7	16, 13, 8, 5	D1–D4	Analog Switch Drain Terminal
3, 14, 11, 6	1, 12, 9, 4	S1–S4	Analog Switch Source Terminal
4	2	V-	Negative-Supply Voltage Input
5	3	GND	Ground
12	10	N.C.	No Connection
13	11	V+	Positive-Supply Voltage Input—Connected to Substrate
—	EP	EP	Exposed Pad. Connect exposed pad to V+ or leave EP unconnected.

Switching Time Test Circuit

Switch output waveform shown for V_S = constant with logic input waveform as shown. Note that V_S may be +ve or -ve as per switching times test circuit. V_O is the steady state output with switch on. Feedthrough via gate capacitance may result in spikes at leading and trailing edge of output waveform.

Protecting Against Fault Conditions

Fault conditions occur when power supplies are turned off when input signals are still present, or when over-voltages occur at the inputs during normal operation. In either case, source-to-body diodes can be forward biased and conduct current from the signal source. If

Quad SPST CMOS Analog Switches

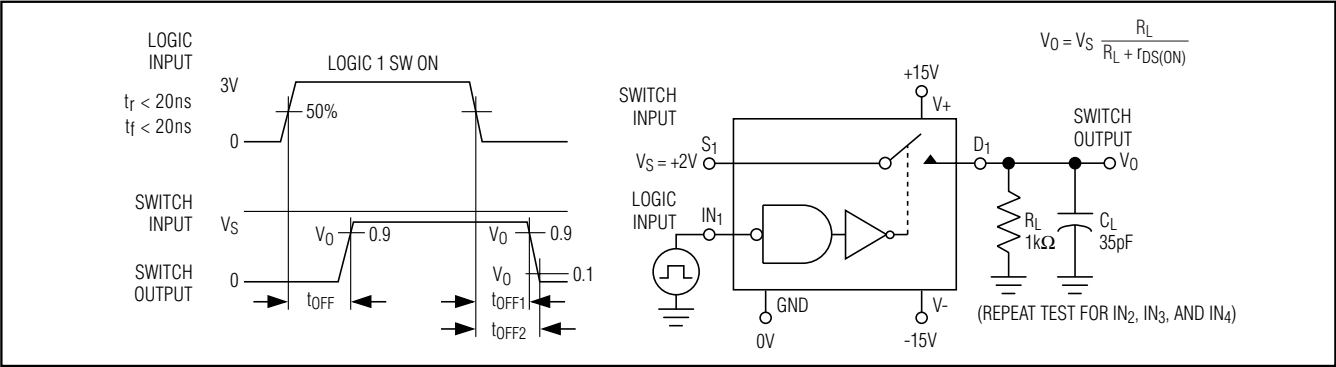


Figure 1. Switching Time

Typical RDS(ON) vs. Power Supplies for Maxim's DG202, and DG212

POWER SUPPLIES	RDS(ON) AT ANALOG SIGNAL LEVEL					
	-5V	+5V	-10V	+10V	-15V	+15V
±5V	350Ω	380Ω	—	—	—	—
±10V	—	—	165Ω	250Ω	—	—
±15V	—	—	125Ω	160Ω	135Ω	155Ω

this current is required to be kept to low (μA) levels then the addition of external protection diodes is recommended.

To provide protection for overvoltages up to 20V above the supplies, a 1N4001 or 1N914 type diode should be placed in series with the positive and negative supplies as shown in Figure 2. The addition of these diodes will reduce the analog signal range to 1V below the positive supply and 1V above the negative supply.

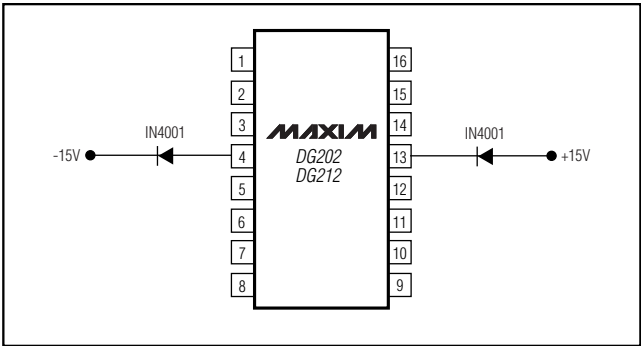
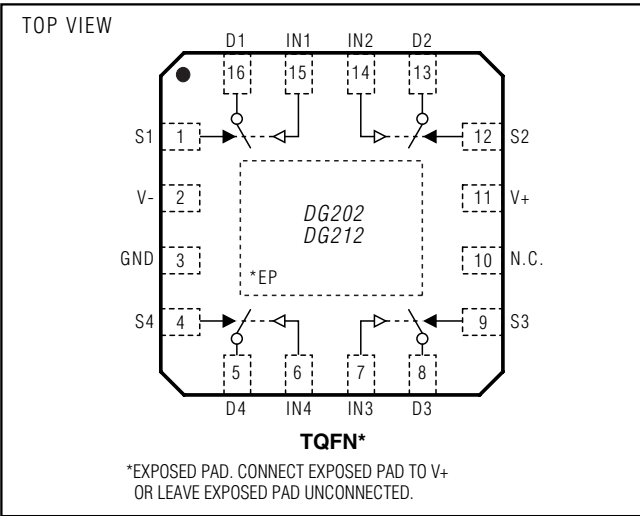


Figure 2. Protection against Fault Conditions

Pin Configurations (continued)



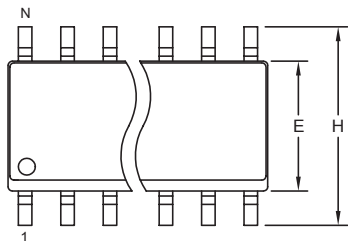
Quad SPST CMOS Analog Switches

Package Information

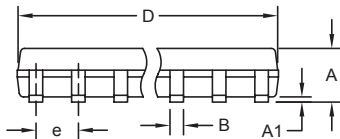
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DG202/DG212

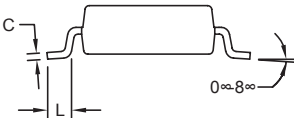
SOICN EPSS



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:

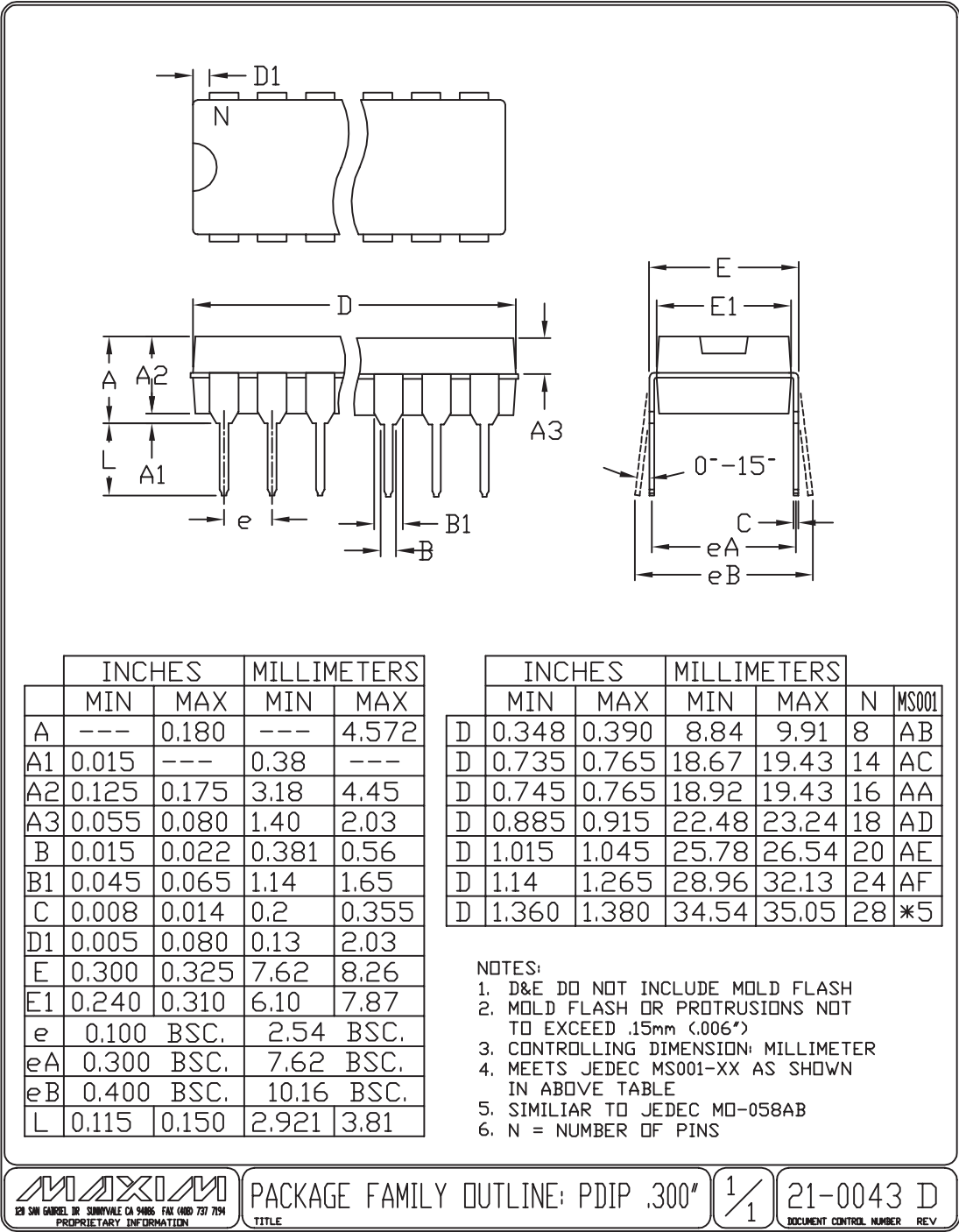
1. D&E DO NOT INCLUDE MOLD FLASH.
2. MOLD FLASH OR PROTRUSIONS NOT TO EXCEED 0.15mm (.006").
3. LEADS TO BE COPLANAR WITHIN 0.10mm (.004").
4. CONTROLLING DIMENSION: MILLIMETERS.
5. MEETS JEDEC MS012.
6. N = NUMBER OF PINS.

PROPRIETARY INFORMATION	
TITLE: PACKAGE OUTLINE, .150" SOIC	
APPROVAL	DOCUMENT CONTROL NO. 21-0041
REV. B	1/1

Quad SPST CMOS 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.)

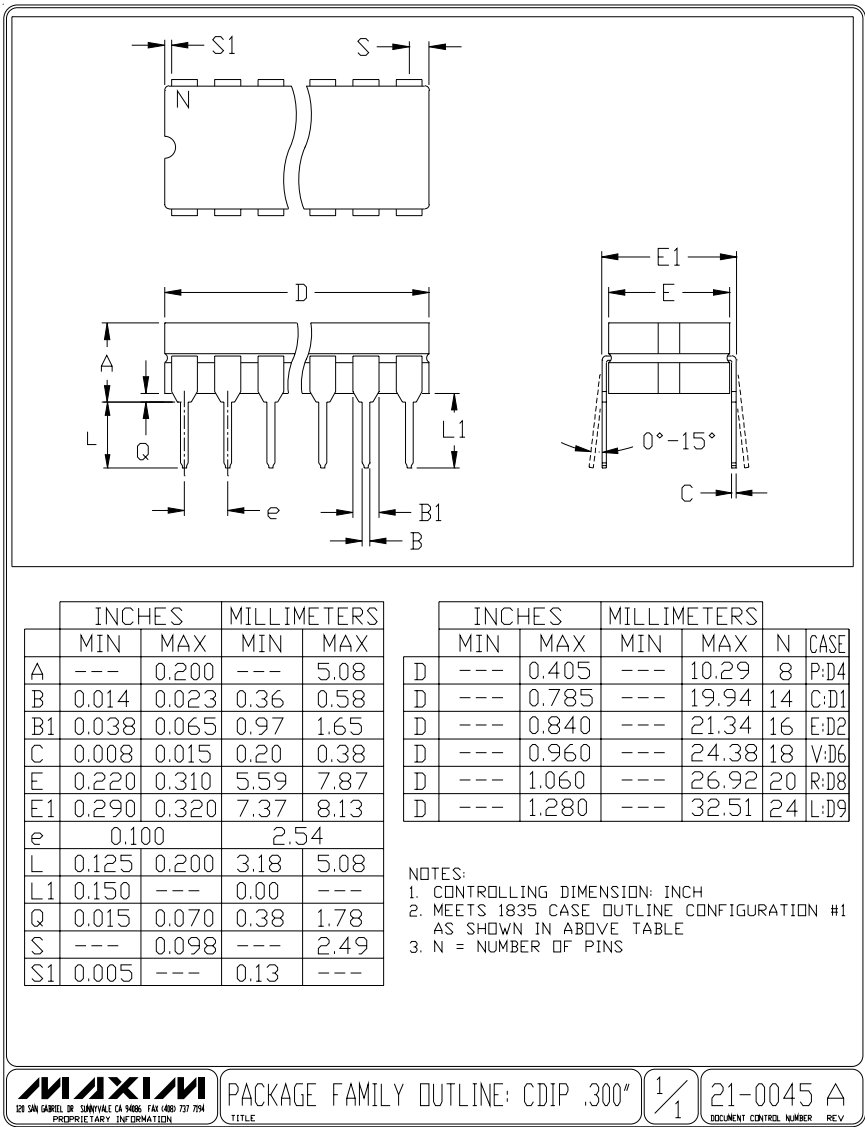


Quad SPST CMOS Analog Switches

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.)

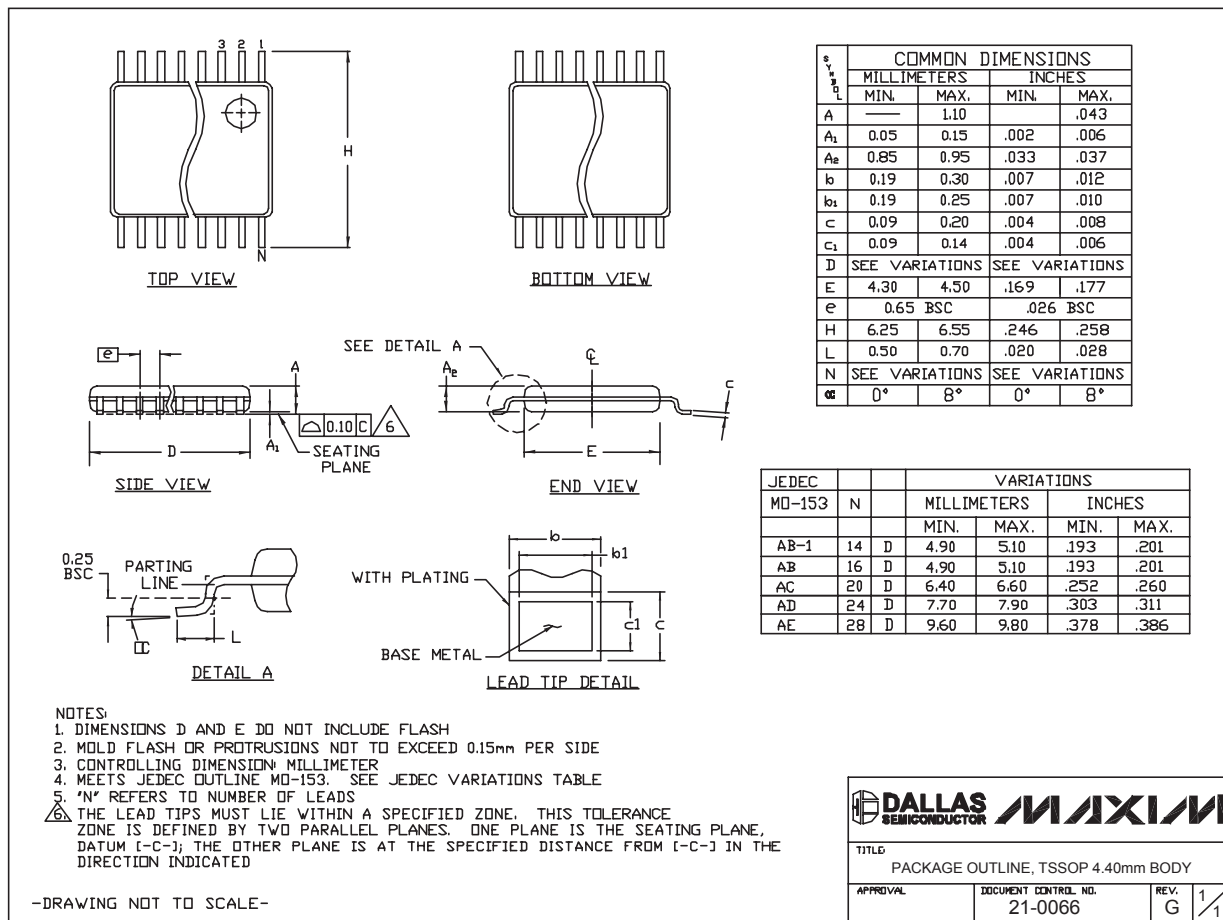
DG202/DG212



Quad SPST CMOS 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.)



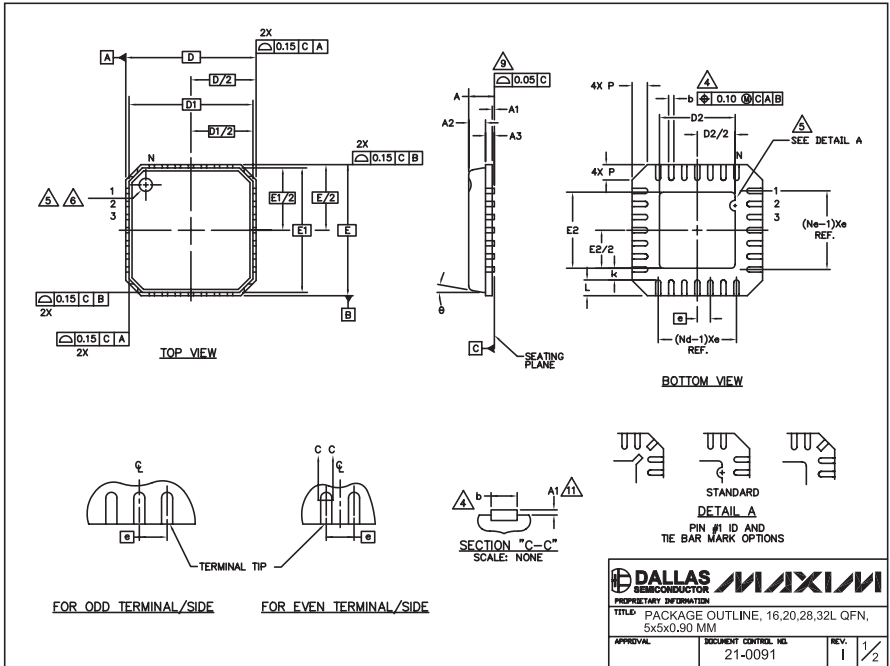
TSSOP4, 4.40mm, EPS

Quad SPST CMOS 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.)

DG202/DG212



COMMON DIMENSIONS												
PKG	16L 5x5			20L 5x5			28L 5x5			32L 5x5		
SYMBOL	MIN.	NOM.	MAX.	MIN.	NOM.	MAX.	MIN.	NOM.	MAX.	MIN.	NOM.	MAX.
A	0.80	0.90	1.00	0.80	0.90	1.00	0.80	0.90	1.00	0.80	0.90	1.00
A1	0.00	0.01	0.05	0.00	0.01	0.05	0.00	0.01	0.05	0.00	0.01	0.05
A2	0.00	0.65	1.00	0.00	0.65	1.00	0.00	0.65	1.00	0.00	0.65	1.00
A3	0.20 REF			0.20 REF			0.20 REF			0.20 REF		
b	0.28	0.33	0.40	0.23	0.28	0.35	0.18	0.23	0.30	0.18	0.23	0.30
D	4.90	5.00	5.10	4.90	5.00	5.10	4.90	5.00	5.10	4.90	5.00	5.10
D1	4.75 BSC			4.75 BSC			4.75 BSC			4.75 BSC		
E	4.90	5.00	5.10	4.90	5.00	5.10	4.90	5.00	5.10	4.90	5.00	5.10
E1	4.75 BSC			4.75 BSC			4.75 BSC			4.75 BSC		
e	0.80 BSC			0.65 BSC			0.50 BSC			0.50 BSC		
k	0.25	—	—	0.25	—	—	0.25	—	—	0.25	—	—
L	0.35	0.55	0.75	0.35	0.55	0.75	0.35	0.55	0.75	0.30	0.40	0.50
N	16			20			28			32		
ND	4			5			7			8		
NE	4			5			7			8		
P	0.00	0.42	0.60	0.00	0.42	0.60	0.00	0.42	0.60	0.00	0.42	0.60
θ	0°	12°	0°	12°	0°	12°	0°	12°	0°	12°	0°	12°

NOTES:

1. DIE THICKNESS ALLOWABLE IS 0.305mm MAXIMUM (.012 INCHES MAXIMUM)
2. DIMENSIONING & TOLERANCES CONFORM TO ASME Y14.5M - 1994.
3. N IS THE NUMBER OF TERMINALS.
4. ND IS THE NUMBER OF TERMINALS IN X-DIRECTION & Ne IS THE NUMBER OF TERMINALS IN Y-DIRECTION.
5. DIMENSION b APPLIES TO PLATED TERMINAL AND IS MEASURED BETWEEN 0.20 AND 0.25mm FROM TERMINAL TIP.
6. THE PIN #1 IDENTIFIER MUST BE EXISTED ON THE TOP SURFACE OF THE PACKAGE BY USING INDENTATION MARK OR INK/LASER MARKED. DETAILS OF PIN #1 IDENTIFIER IS OPTIONAL, BUT MUST BE LOCATED WITHIN ZONE INDICATED.
7. EXACT SHAPE AND SIZE OF THIS FEATURE IS OPTIONAL.
8. ALL DIMENSIONS ARE IN MILLIMETERS.
9. PACKAGE WARPAGE MAX 0.05mm.
10. APPLIED FOR EXPOSED PAD AND TERMINALS. EXCLUDE EMBEDDED PART OF EXPOSED PAD FROM MEASURING.
11. MEETS JEDEC MO220; EXCEPT DIMENSION "b".
12. APPLIED FOR EXPOSED PAD AND TERMINALS. EXCLUDE EMBEDDING PART OF EXPOSED PAD FROM MEASURING.
13. THIS PACKAGE OUTLINE APPLIES TO ANVIL SINGULATION (STEPPED SIDES).

EXPOSED PAD VARIATIONS

PKG CODES	D2			E2		
	MIN.	NOM.	MAX.	MIN.	NOM.	MAX.
G1655-3	2.95	3.10	3.25	2.95	3.10	3.25
G2055-1	2.55	2.70	2.85	2.55	2.70	2.85
G2055-2	2.95	3.10	3.25	2.95	3.10	3.25
G2855-1	2.55	2.70	2.85	2.55	2.70	2.85
G2855-2	2.95	3.10	3.25	2.95	3.10	3.25
G3255-1	2.95	3.10	3.25	2.95	3.10	3.25

DALLAS MAXIM SEMICONDUCTOR

PROPRIETARY INFORMATION

TITLE: PACKAGE OUTLINE, 16,20,28,32L QFN, 5x5x0.90 MM

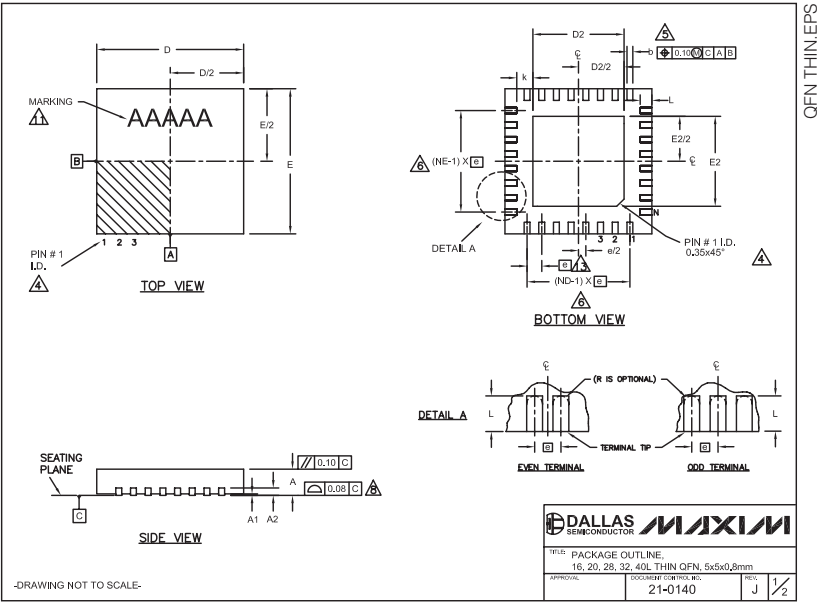
APPROVAL: DOCUMENT CONTROL NO. 21-0091

REV: 1 2/2

Quad SPST CMOS 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.)



COMMON DIMENSIONS												
PKG.	16L 5x5			20L 5x5			28L 5x5			32L 5x5		
SYMBOL	MIN.	NOM.	MAX.	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	0.70	0.75	0.80
A1	0	0.02	0.05	0	0.02	0.05	0	0.02	0.05	0	0.02	0.05
A2	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	0.35	0.25	0.30	0.35
D	4.90	5.00	5.10	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	4.90	5.00	5.10
e	0.80 BSC.			0.85 BSC.			0.90 BSC.			0.90 BSC.		
k	0.25	-	-	0.25	-	-	0.25	-	-	0.25	-	-
L	0.30	0.40	0.50	0.45	0.55	0.65	0.30	0.40	0.50	0.30	0.40	0.50
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								
SYMBOL	MIN.	NOM.	MAX.	MIN.	NOM.	MAX.	MIN.	NOM.	MAX.	MIN.	NOM.	MAX.
T1655-2	3.00	3.10	3.20	3.00	3.10	3.20						
T1655-3	3.00	3.10	3.20	3.00	3.10	3.20						
T1655N-1	3.00	3.10	3.20	3.00	3.10	3.20						
T2055-3	3.00	3.10	3.20	3.00	3.10	3.20						
T2055-4	3.00	3.10	3.20	3.00	3.10	3.20						
T2055-5	3.15	3.25	3.35	3.15	3.25	3.35						
T2855-3	3.15	3.25	3.35	3.15	3.25	3.35						
T2855-4	2.60	2.70	2.80	2.60	2.70	2.80						
T2855-5	2.60	2.70	2.80	2.60	2.70	2.80						
T2855-6	3.15	3.25	3.35	3.15	3.25	3.35						
T2855-7	2.60	2.70	2.80	2.60	2.70	2.80						
T2855-8	3.15	3.25	3.35	3.15	3.25	3.35						
T2855N-1	3.15	3.25	3.35	3.15	3.25	3.35						
T3255-3	3.00	3.10	3.20	3.00	3.10	3.20						
T3255-4	3.00	3.10	3.20	3.00	3.10	3.20						
T3255-5	3.00	3.10	3.20	3.00	3.10	3.20						
T3255N-1	3.00	3.10	3.20	3.00	3.10	3.20						
T4055-1	3.40	3.50	3.60	3.40	3.50	3.60						
T4055-2	3.40	3.50	3.60	3.40	3.50	3.60						

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 95-1 SPR-012. 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 b 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 T2855-3 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.
13. LEAD CENTERLINES TO BE AT TRUE POSITION AS DEFINED BY BASIC DIMENSION "w", ±0.05.

-DRAWING NOT TO SCALE-

DALLAS SEMICONDUCTOR MAXIM

PACKAGE OUTLINE, 16, 20, 28, 32, 40L THIN QFN, 5x5x0.8mm

21-0140

Revision History

Pages changed at Rev3: 1-6, 11

Maxim cannot assume responsibility for use of any circuitry other than circuitry entirely embodied in a Maxim product. No circuit patent licenses are implied. Maxim reserves the right to change the circuitry and specifications without notice at any time.

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