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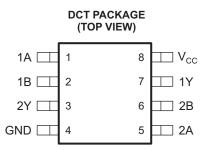
SCES198M-APRIL 1999-REVISED NOVEMBER 2013

Dual 2-Input Positive-AND Gate

Check for Samples: SN74LVC2G08

FEATURES

- Available in the Texas Instruments NanoStar™ and NanoFree[™] Package
- Supports 5-V V_{CC} Operation
- Inputs Accept Voltages to 5.5 V •
- Max t_{pd} of 4.7 ns at 3.3 V
- Low Power Consumption, 10-µA Max I_{CC}
- ±24-mA Output Drive at 3.3 V
- **Typical V_{OLP} (Output Ground Bounce)** <0.8 V at V_{CC} = 3.3 V, T_A = 25°C
- Typical V_{OHV} (Output V_{OH} Undershoot) >2 V at V_{CC} = 3.3 V, T_A = 25°C
- Ioff Supports Live Insertion, Partial-Power-**Down Mode, and Back-Drive Protection**
- Can Be Used as a Down Translator to Translate Inputs From a Max of 5.5 V Down to the V_{CC} Level
- Latch-Up Performance Exceeds 100 mA Per JESD 78, Class II
- ESD Protection Exceeds JESD 22
 - 2000-V Human-Body Model (A114-A)
 - 1000-V Charged-Device Model (C101)



See mechanical drawings for dimensions.

DESCRIPTION

This dual 2-input positive-AND gate is designed for 1.65-V to 5.5-V V_{CC} operation.

The SN74LVC2G08 device performs the Boolean function $Y = A \bullet B$ or $Y = \overline{A} + \overline{B}$ in positive logic.

NanoFree[™] package technology is a major breakthrough in IC packaging concepts, using the die as the package.

This device is fully specified for partial-power-down applications using I_{off} . The I_{off} circuitry disables the outputs, preventing damaging current backflow through the device when it is powered down.

I		ACKAGE P VIEW)	Ē
1A 🗆	1	8	$\square V_{cc}$
1B 🗔	2	7	∐ 1Y
2Y 🗔	3	6	<u> </u>
GND 🗌	4	5	□ 2A

YZP PACKAGE
(BOTTOM VIEW)

ND	O4 50	2A
2Y	O36O	2B
1B	O2 7 O	1Y
1A	O180	V _{cc}

G

AA

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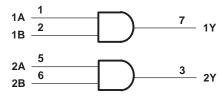
SN74LVC2G08



These devices have limited built-in ESD protection. The leads should be shorted together or the device placed in conductive foam during storage or handling to prevent electrostatic damage to the MOS gates.

F	Function (Each G	
INP	UTS	OUTPUT
Α	В	Y
Н	Н	Н
L	Х	L
Х	L	L

Logic Diagram (Positive Logic)



Absolute Maximum Ratings⁽¹⁾

over operating free-air temperature range (unless otherwise noted)

			MIN	MAX	UNIT
V _{CC}	Supply voltage range		-0.5	6.5	V
VI	Input voltage range ⁽²⁾		-0.5	6.5	V
Vo	Voltage range applied to any output in the h	igh-impedance or power-off state ⁽²⁾	-0.5	6.5	V
Vo	Voltage range applied to any output in the h	igh or low state ⁽²⁾⁽³⁾	-0.5	V _{CC} + 0.5	V
I _{IK}	Input clamp current	V ₁ < 0		-50	mA
I _{OK}	Output clamp current	V _O < 0		-50	mA
I _O	Continuous output current			±50	mA
	Continuous current through V _{CC} or GND			±100	mA
		DCT package		220	
θ_{JA}	Package thermal impedance ⁽⁴⁾	DCU package		227	°C/W
		YZP package		102	
T _{stg}	Storage temperature range		-65	150	°C

(1) 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 under "recommended operating conditions" is not implied. Exposure to absolute-maximum-rated conditions for extended periods may affect device reliability.

2) The input negative-voltage and output voltage ratings may be exceeded if the input and output current ratings are observed.

(3) The value of V_{CC} is provided in the recommended operating conditions table.

(4) The package thermal impedance is calculated in accordance with JESD 51-7.



SN74LVC2G08

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Recommended Operating Conditions⁽¹⁾

			MIN	MAX	UNIT
V	Supply voltage	Operating	1.65	5.5	V
V _{CC}	Supply voltage	Data retention only	1.5		v
		V _{CC} = 1.65 V to 1.95 V	0.65 × V _{CC}		
V	Lligh lovel input veltage	V_{CC} = 2.3 V to 2.7 V	1.7		V
VIH	High-level input voltage	$V_{CC} = 3 V \text{ to } 3.6 V$	2		v
		V_{CC} = 4.5 V to 5.5 V	$0.7 \times V_{CC}$		
		$V_{CC} = 1.65 \text{ V} \text{ to } 1.95 \text{ V}$		$0.35 \times V_{CC}$	
V		V_{CC} = 2.3 V to 2.7 V		0.7	V
V _{IL}	Low-level input voltage Input voltage Output voltage	$V_{CC} = 3 V$ to 3.6 V		0.8	v
		$V_{CC} = 4.5 \text{ V} \text{ to } 5.5 \text{ V}$		$0.3 \times V_{CC}$	
VI	Input voltage		0	5.5	V
Vo	Output voltage		0	V _{CC}	V
		V _{CC} = 1.65 V		-4	
		V _{CC} = 2.3 V		-8	
I _{OH}	High-level output current	$V_{CC} = 3 V$		-16	mA
		VCC = 3 V		-24	
		$V_{CC} = 4.5 V$	$ \begin{array}{c} 0.65 \times V_{CC} \\ 1.7 \\ 2 \\ 0.7 \times V_{CC} \\ \end{array} $ 0	-32	
		V _{CC} = 1.65 V		4	
		V _{CC} = 2.3 V		8	
I _{OL}	Low-level output current	$V_{CC} = 3 V$		16	mA
		$v_{CC} = 3 v$		24	
		$V_{CC} = 4.5 V$		32	
		$V_{CC} = 1.8 \text{ V} \pm 0.15 \text{ V}, 2.5 \text{ V} \pm 0.2 \text{ V}$		20	
Δt/Δv	Input transition rise or fall rate	$V_{CC} = 3.3 \text{ V} \pm 0.3 \text{ V}$		10	ns/V
		$V_{CC} = 5 \text{ V} \pm 0.5 \text{ V}$		5	
T _A	Operating free-air temperature		-40	125	°C

(1) All unused inputs of the device must be held at V_{CC} or GND to ensure proper device operation. Refer to the TI application report, Implications of Slow or Floating CMOS Inputs, literature number SCBA004. SCES198M-APRIL 1999-REVISED NOVEMBER 2013

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Electrical Characteristics

over recommended operating free-air temperature range (unless otherwise noted)

			-40°	C to 85°C		–40°0	C to 125°C		
PARAMETER	TEST CONDITIONS	V _{cc}	MIN	TYP ⁽¹⁾	MAX	MIN	TYP ⁽¹⁾	MAX	UNIT
	I _{OH} = -100 μA	1.65 V to 5.5 V	V _{CC} - 0.1			V _{CC} - 0.1			
	$I_{OH} = -4 \text{ mA}$	1.65 V	1.2			1.2			
V _{OH}	I _{OH} = -8 mA	2.3 V	1.9			1.9			V
	$I_{OH} = -16 \text{ mA}$	3 V	2.4			2.4			
	I _{OH} = -24 mA	3 V	2.3			2.3			
	$I_{OH} = -32 \text{ mA}$	4.5 V	3.8			3.8			
	I _{OL} = 100 μA	1.65 V to 5.5 V			0.1			0.1	
	I _{OL} = 4 mA	1.65 V			0.45			0.45	
V _{OL}	I _{OL} = 8 mA	2.3 V			0.3			0.3	V
	I _{OL} = 16 mA	2.14			0.4			0.4	
	$I_{OL} = 24 \text{ mA}$	3 V			0.55			0.55	
	I _{OL} = 32 mA	4.5 V			0.55			0.55	
I _I A or B inputs	V _I = 5.5 V or GND	0 to 5.5 V			±5			±5	μA
l _{off}	$V_1 \text{ or } V_0 = 5.5 \text{ V}$	0			±10			±10	μA
I _{cc}	$V_1 = 5.5 V \text{ or GND}, \qquad I_0 = 0$	1.65 V to 5.5 V			10			10	μA
ΔI _{CC}	One input at V_{CC} – 0.6 V, $$ Other inputs at V_{CC} or GND $$	3 V to 5.5 V			500			500	μA
Ci	$V_1 = V_{CC}$ or GND	3.3 V		5					pF

(1) All typical values are at V_{CC} = 3.3 V, T_A = 25 ^{\circ}C.

Switching Characteristics

over recommended operating free-air temperature range (unless otherwise noted) (see Figure 1)

		SN74LVC2G08 -40°C to 85°C									
PARAMETER	FROM (INPUT)	TO (OUTPUT)	V _{CC} = 1.8 V ± 0.15 V		V _{CC} = 2.5 V ± 0.2 V		V _{CC} = 3.3 V ± 0.3 V		V _{CC} = 5 V ± 0.5 V		UNIT
			MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	
t _{pd}	A or B	Y	2.6	9	1	5.1	1	4.7	1	3.8	ns

Switching Characteristics

over recommended operating free-air temperature range (unless otherwise noted) (see Figure 1)

		SN74LVC2G08 –40°C to 125°C									
PARAMETER	FROM (INPUT)	TO (OUTPUT)	V _{CC} = 1 ± 0.1		V _{CC} = 2.5 V ± 0.2 V		V _{CC} = 3.3 V ± 0.3 V		V _{CC} = 5 V ± 0.5 V		UNIT
			MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	
t _{pd}	A or B	Y	2.6	9.8	1	5.8	1	5.3	1	4.8	ns

Operating Characteristics

 $T_A = 25^{\circ}C$

PARAMETER		TEST CONDITIONS	V _{CC} = 1.8 V	V_{CC} = 2.5 V	$V_{CC} = 3.3 V$	$V_{CC} = 5 V$	UNIT	
	FARAMETER	TEST CONDITIONS	TYP	TYP	TYP	TYP	UNIT	
C _{pd}	Power dissipation capacitance	f = 10 MHz	17	17	17	20	pF	

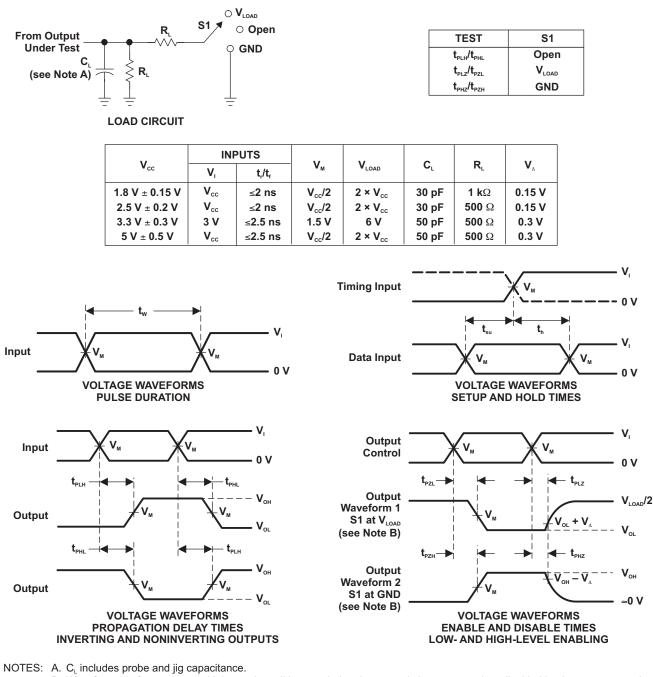


SN74LVC2G08

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Parameter Measurement Information



B. Waveform 1 is for an output with internal conditions such that the output is low, except when disabled by the output control. Waveform 2 is for an output with internal conditions such that the output is high, except when disabled by the output control. C. All input pulses are supplied by generators having the following characteristics: PRR \leq 10 MHz, Z₀ = 50 Ω .

- D. The outputs are measured one at a time, with one transition per measurement.
- E. t_{PLZ} and t_{PHZ} are the same as t_{dis} .
- F. t_{PZL} and t_{PZH} are the same as t_{en} .
- G. $t_{\mbox{\tiny PLH}}$ and $t_{\mbox{\tiny PHL}}$ are the same as $t_{\mbox{\tiny pd}}$
- H. All parameters and waveforms are not applicable to all devices.

Figure 1. Load Circuit and Voltage Waveforms

REVISION HISTORY

Changes from Revision L (January 2007) to Revision M Removed Ordering Information table. 1

EXAS STRUMENTS

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Page



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PACKAGING INFORMATION

Orderable Device	Status (1)	Package Type	Package Drawing	Pins	Package Qty	Eco Plan (2)	Lead/Ball Finish (6)	MSL Peak Temp	Op Temp (°C)	Device Marking (4/5)	Samples
SN74LVC2G08DCTR	ACTIVE	SM8	DCT	8	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 125	C08 Z	Samples
SN74LVC2G08DCTRE4	ACTIVE	SM8	DCT	8	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 125	C08 Z	Samples
SN74LVC2G08DCTRG4	ACTIVE	SM8	DCT	8	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 125	C08 Z	Samples
SN74LVC2G08DCUR	ACTIVE	US8	DCU	8	3000	Green (RoHS & no Sb/Br)	CU NIPDAU CU SN	Level-1-260C-UNLIM	-40 to 125	(08 ~ C08Q ~ C08R) (CR ~ CZ)	Samples
SN74LVC2G08DCURE4	ACTIVE	US8	DCU	8	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 125	C08R	Samples
SN74LVC2G08DCURG4	ACTIVE	US8	DCU	8	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 125	C08R	Samples
SN74LVC2G08DCUT	ACTIVE	US8	DCU	8	250	Green (RoHS & no Sb/Br)	CU NIPDAU CU SN	Level-1-260C-UNLIM	-40 to 125	(C08Q ~ C08R) CR	Samples
SN74LVC2G08DCUTE4	ACTIVE	US8	DCU	8		TBD	Call TI	Call TI	-40 to 125		Samples
SN74LVC2G08DCUTG4	ACTIVE	US8	DCU	8	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 125	C08R	Samples
SN74LVC2G08YZPR	ACTIVE	DSBGA	YZP	8	3000	Green (RoHS & no Sb/Br)	SNAGCU	Level-1-260C-UNLIM	-40 to 85	(CE2 ~ CE7 ~ CEN)	Samples

⁽¹⁾ The marketing status values are defined as follows:

ACTIVE: Product device recommended for new designs.

LIFEBUY: TI has announced that the device will be discontinued, and a lifetime-buy period is in effect.

NRND: Not recommended for new designs. Device is in production to support existing customers, but TI does not recommend using this part in a new design.

PREVIEW: Device has been announced but is not in production. Samples may or may not be available.

OBSOLETE: TI has discontinued the production of the device.

(2) Eco Plan - The planned eco-friendly classification: Pb-Free (RoHS), Pb-Free (RoHS Exempt), or Green (RoHS & no Sb/Br) - please check http://www.ti.com/productcontent for the latest availability information and additional product content details.

TBD: The Pb-Free/Green conversion plan has not been defined.

Pb-Free (RoHS): TI's terms "Lead-Free" or "Pb-Free" mean semiconductor products that are compatible with the current RoHS requirements for all 6 substances, including the requirement that lead not exceed 0.1% by weight in homogeneous materials. Where designed to be soldered at high temperatures, TI Pb-Free products are suitable for use in specified lead-free processes.

Pb-Free (RoHS Exempt): This component has a RoHS exemption for either 1) lead-based flip-chip solder bumps used between the die and package, or 2) lead-based die adhesive used between the die and leadframe. The component is otherwise considered Pb-Free (RoHS compatible) as defined above.

Green (RoHS & no Sb/Br): TI defines "Green" to mean Pb-Free (RoHS compatible), and free of Bromine (Br) and Antimony (Sb) based flame retardants (Br or Sb do not exceed 0.1% by weight in homogeneous material)



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⁽³⁾ MSL, Peak Temp. - The Moisture Sensitivity Level rating according to the JEDEC industry standard classifications, and peak solder temperature.

⁽⁴⁾ There may be additional marking, which relates to the logo, the lot trace code information, or the environmental category on the device.

⁽⁵⁾ Multiple Device Markings will be inside parentheses. Only one Device Marking contained in parentheses and separated by a "~" will appear on a device. If a line is indented then it is a continuation of the previous line and the two combined represent the entire Device Marking for that device.

⁽⁶⁾ Lead/Ball Finish - Orderable Devices may have multiple material finish options. Finish options are separated by a vertical ruled line. Lead/Ball Finish values may wrap to two lines if the finish value exceeds the maximum column width.

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OTHER QUALIFIED VERSIONS OF SN74LVC2G08 :

Automotive: SN74LVC2G08-Q1

Enhanced Product: SN74LVC2G08-EP

NOTE: Qualified Version Definitions:

- Automotive Q100 devices qualified for high-reliability automotive applications targeting zero defects
- Enhanced Product Supports Defense, Aerospace and Medical Applications

PACKAGE MATERIALS INFORMATION

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TAPE AND REEL INFORMATION





QUADRANT ASSIGNMENTS FOR PIN 1 ORIENTATION IN TAPE



*All dimensions are nominal												
Device	Package Type	Package Drawing		SPQ	Reel Diameter (mm)	Reel Width W1 (mm)	A0 (mm)	B0 (mm)	K0 (mm)	P1 (mm)	W (mm)	Pin1 Quadrant
SN74LVC2G08DCUR	US8	DCU	8	3000	180.0	9.0	2.05	3.3	1.0	4.0	8.0	Q3
SN74LVC2G08DCURG4	US8	DCU	8	3000	180.0	8.4	2.25	3.35	1.05	4.0	8.0	Q3
SN74LVC2G08DCUT	US8	DCU	8	250	180.0	8.4	2.25	3.35	1.05	4.0	8.0	Q3
SN74LVC2G08YZPR	DSBGA	YZP	8	3000	178.0	9.2	1.02	2.02	0.63	4.0	8.0	Q1

TEXAS INSTRUMENTS

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PACKAGE MATERIALS INFORMATION

1-Nov-2013



*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
SN74LVC2G08DCUR	US8	DCU	8	3000	182.0	182.0	20.0
SN74LVC2G08DCURG4	US8	DCU	8	3000	202.0	201.0	28.0
SN74LVC2G08DCUT	US8	DCU	8	250	202.0	201.0	28.0
SN74LVC2G08YZPR	DSBGA	YZP	8	3000	220.0	220.0	35.0

MECHANICAL DATA

MPDS049B - MAY 1999 - REVISED OCTOBER 2002

DCT (R-PDSO-G8)

PLASTIC SMALL-OUTLINE PACKAGE



NOTES: A. All linear dimensions are in millimeters.

B. This drawing is subject to change without notice.

C. Body dimensions do not include mold flash or protrusion

D. Falls within JEDEC MO-187 variation DA.



DCT (R-PDSO-G8) PLASTIC SMALL OUTLINE Example Board Layout Example Stencil Design (Note C,E) (Note D) - 6x0,65 - 6x0,65 8x0,25-8x1,55 3,40 3,40 Non Solder Mask Defined Pad Example Pad Geometry -0,30 (Note C) 1,60 Example -0,07 Non-solder Mask Opening All Around (Note E) 4212201/A 10/11

NOTES: A. All linear dimensions are in millimeters.

- B. This drawing is subject to change without notice.
- C. Publication IPC-7351 is recommended for alternate designs.
- D. Laser cutting apertures with trapezoidal walls and also rounding corners will offer better paste release. Customers should contact their board assembly site for stencil design recommendations. Refer to IPC-7525.
- E. Customers should contact their board fabrication site for solder mask tolerances between and around signal pads.



DCU (R-PDSO-G8)

PLASTIC SMALL-OUTLINE PACKAGE (DIE DOWN)



NOTES: A. All linear dimensions are in millimeters.

B. This drawing is subject to change without notice.

C. Body dimensions do not include mold flash or protrusion. Mold flash and protrusion shall not exceed 0.15 per side.

D. Falls within JEDEC MO-187 variation CA.



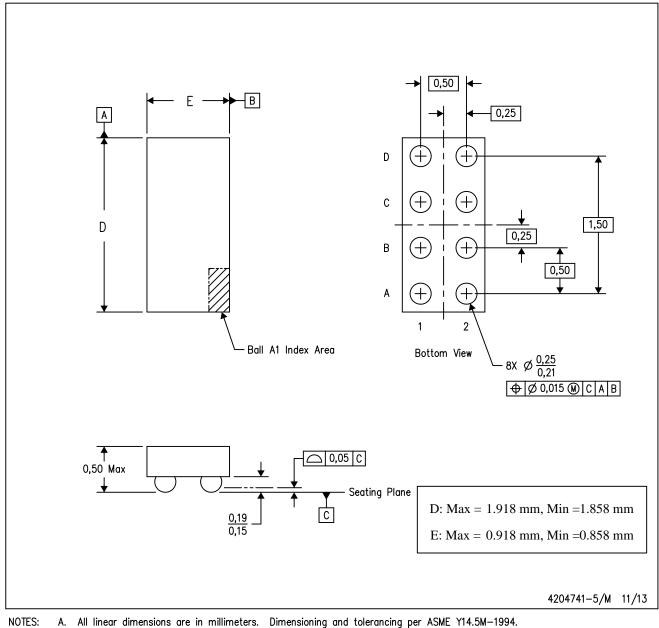


- NOTES: A. All linear dimensions are in millimeters. В. This drawing is subject to change without notice.
 - C. Publication IPC-7351 is recommended for alternate designs.
 - D. Laser cutting apertures with trapezoidal walls and also rounding corners will offer better paste release. Customers should contact their board assembly site for stencil design recommendations. Refer to IPC-7525 for other stencil recommendations.
 - E. Customers should contact their board fabrication site for solder mask tolerances between and around signal pads.



YZP (R-XBGA-N8)

DIE-SIZE BALL GRID ARRAY



- A. All linear dimensions are in millimeters. Dimension B. This drawing is subject to change without notice.
- C. NanoFree™ package configuration.

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