

Dual 2-Input Positive-NOR Gate

Check for Samples: SN74LVC2G02

FEATURES

- Available in the Texas Instruments NanoFree™ **Package**
- Supports 5-V V_{CC} Operation
- Inputs Accept Voltages to 5.5 V
- Max t_{pd} of 4.9 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)** $<0.8 \text{ V at V}_{CC} = 3.3 \text{ V}, T_A = 25^{\circ}\text{C}$
- Typical V_{OHV} (Output V_{OH} Undershoot) >2 V at V_{CC} = 3.3 V, T_A = 25°C
- I_{off} Supports Partial-Power-Down Mode Operation
- 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)

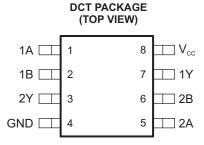
DESCRIPTION

This dual 2-input positive-NOR gate is designed for 1.65-V to 5.5-V V_{CC} operation.

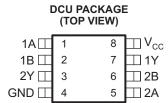
The SN74LVC2G02 performs the Boolean function Y $= \overline{A + B}$ or $Y = \overline{A} \cdot \overline{B}$ in positive logic.

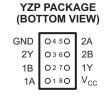
NanoFree[™] package technology is a major breakthrough in IC packaging concepts, using the die as the package.

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









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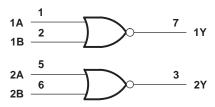


These devices have limited built-in ESD protection. The leads should be shorted together or the device placed in conductive foam during storage or handling to prevent electrostatic damage to the MOS gates.

Function Table (Each Gate)

INP	OUTPUT	
Α	В	Y
Н	Χ	L
X	Н	L
L	L	Н

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⁾	input voltage range ⁽²⁾					
Vo	Voltage range applied to any output in the high	-0.5	6.5	٧			
Vo	Voltage range applied to any output in the high	-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		
Io	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	ô		

- (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 clamp-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.

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Recommended Operating Conditions⁽¹⁾

			MIN	MAX	UNIT	
\/	Cumply 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}			
. ,	LPak laval Sanat valta na	V _{CC} = 2.3 V to 2.7 V	1.7		V	
V _{IH}	High-level input voltage	V _{CC} = 3 V to 3.6 V	2		V	
		V _{CC} = 4.5 V to 5.5 V	0.7 × V _{CC}			
		V _{CC} = 1.65 V to 1.95 V		0.35 × V _{CC}		
	Level Service Branch	V _{CC} = 2.3 V to 2.7 V		0.7	V	
V_{IL}	Low-level input voltage	V _{CC} = 3 V to 3.6 V		0.8		
		V _{CC} = 4.5 V to 5.5 V		0.3 × 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 0 V		-16	mA	
		V _{CC} = 3 V		-24		
		V _{CC} = 4.5 V		-32		
		V _{CC} = 1.65 V		4		
		V _{CC} = 2.3 V		8		
l _{OL}	Low-level output current	V 0 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/Δν	Input transition rise or fall rate	$V_{CC} = 3.3 \text{ V} \pm 0.3 \text{ V}$		10	+	
		$V_{CC} = 5 \text{ V} \pm 0.5 \text{ V}$		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.

Product Folder Links: SN74LVC2G02



Electrical Characteristics

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

DADAMETED	TEST SOMBITIONS	.,	-40	0°C to 85°C		-40°C to 125°C			
PARAMETER	TEST CONDITIONS	V _{cc}	MIN	TYP ⁽¹⁾	XAN	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}	$I_{OH} = -8 \text{ mA}$	2.3 V	1.9			1.9	·		V
OI1	I _{OH} = -16 mA	0.14	2.4			2.4			
	$I_{OH} = -24 \text{ mA}$	3 V	2.3			2.3			
	$I_{OH} = -32 \text{ mA}$	4.5 V	3.8			3.8			
	Ι _{ΟL} = 100 μΑ	1.65 V to 5.5 V			0.1		,	0.1	
	I _{OL} = 4 mA	1.65 V		1	0.45			0.45	
V _{OL}	I _{OL} = 8 mA	2.3 V			0.3			0.3	V
OL .	I _{OL} = 16 mA	0.17			0.4			0.4	
	I _{OL} = 24 mA	3 V		1	0.55			0.75	
	I _{OL} = 32 mA	4.5 V		1	0.55			0.75	
I _I A or B inputs	V _I = 5.5 V or GND	0 to 5.5 V			±5			±5	μΑ
I _{off}	V_I or $V_O = 5.5 \text{ V}$	0			±10			±10	μΑ
I _{cc}	$V_I = 5.5 \text{ V or GND}, \qquad I_O = 0$	1.65 V to 5.5 V			10			10	μΑ
ΔI _{CC}		3 V to 5.5 V			500		·	500	μA
C _i	V _I = V _{CC} or GND	3.3 V		5			5		pF

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

Switching Characteristics

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

			SN74LVC2G02 -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	3.2	8.9	1	5.4	1	4.9	1	4.4	ns

Switching Characteristics

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

			SN74LVC2G02 -40°C to 125°C								
PARAMETER	FROM (INPUT)	TO (OUTPUT)	V _{CC} = 1 ± 0.15		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	Υ	3.2	10.9	1	6.4	1	5.9	1	5.4	ns

Operating Characteristics

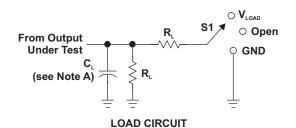
 $T_A = 25$ °C

PARAMETER		TEST CONDITIONS	V _{CC} = 1.8 V	V _{CC} = 2.5 V	V _{CC} = 3.3 V	V _{CC} = 5 V	UNIT	
	FARAWETER	TEST CONDITIONS	TYP	TYP	TYP	TYP	UNII	
C_{pd}	Power dissipation capacitance	f = 10 MHz	18	18	19	22	pF	

Product Folder Links: SN74LVC2G02

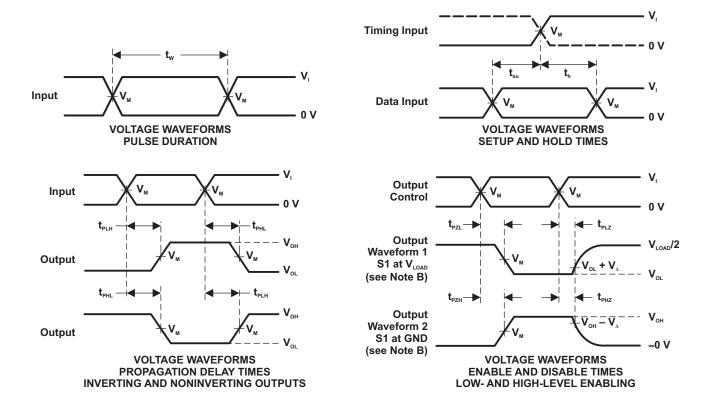


Parameter Measurement Information



TEST	S1
t _{PLH} /t _{PHL}	Open
$t_{_{\mathrm{PLZ}}}/t_{_{\mathrm{PZL}}}$	V _{LOAD}
t _{PHZ} /t _{PZH}	GND

.,	INI	PUTS		.,		-	.,	
V _{cc}	V,	t,/t,	V _M	V _{LOAD}	C _∟	$R_{\scriptscriptstyle L}$	V _A	
1.8 V ± 0.15 V	V _{cc}	≤2 ns	V _{cc} /2	2 × V _{cc}	30 pF	1 k Ω	0.15 V	
2.5 V ± 0.2 V	V_{cc}	≤2 ns	V _{cc} /2	2 × V _{cc}	30 pF	500 Ω	0.15 V	
3.3 V ± 0.3 V	3 V	≤2.5 ns	1.5 V	6 V	50 pF	500 Ω	0.3 V	
5 V ± 0.5 V	V_{cc}	≤2.5 ns	V _{cc} /2	2 × V _{cc}	50 pF	500 Ω	0.3 V	



NOTES: A. C_L includes probe and jig capacitance.

- 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, Z_o = 50 Ω .
- D. The outputs are measured one at a time, with one transition per measurement.
- E. $t_{\mbox{\tiny PLZ}}$ and $\dot{t}_{\mbox{\tiny PHZ}}$ are the same as $t_{\mbox{\tiny dis}}.$
- F. $t_{\mbox{\tiny PZL}}$ and $t_{\mbox{\tiny PZH}}$ are the same as $t_{\mbox{\tiny en}}.$
- G. t_{PLH} and t_{PHL} are the same as t_{pd} .
- H. All parameters and waveforms are not applicable to all devices.

Figure 1. Load Circuit and Voltage Waveforms

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SCES194M - APRIL 1999 - REVISED NOVEMBER 2013



REVISION HISTORY

CI	hanges from Revision L (January 2007) to Revision M	Page
•	Updated document to new TI data sheet format.	1
•	Added ESD warning	2
•	Updated operating temperature range.	3





10-Jun-2014

PACKAGING INFORMATION

Orderable Device	Status	Package Type	Package	Pins	Package	Eco Plan	Lead/Ball Finish	MSL Peak Temp	Op Temp (°C)	Device Marking	Samples
	(1)		Drawing		Qty	(2)	(6)	(3)		(4/5)	
SN74LVC2G02DCTR	ACTIVE	SM8	DCT	8	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 125	C02 Z	Samples
SN74LVC2G02DCTRE4	ACTIVE	SM8	DCT	8	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 125	C02 Z	Samples
SN74LVC2G02DCTRG4	ACTIVE	SM8	DCT	8	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 125	C02 Z	Samples
SN74LVC2G02DCUR	ACTIVE	US8	DCU	8	3000	Green (RoHS & no Sb/Br)	CU NIPDAU CU SN	Level-1-260C-UNLIM	-40 to 125	(C02Q ~ C02R)	Samples
SN74LVC2G02DCURE4	ACTIVE	US8	DCU	8		TBD	Call TI	Call TI	-40 to 125		Samples
SN74LVC2G02DCUT	ACTIVE	US8	DCU	8	250	Green (RoHS & no Sb/Br)	CU NIPDAU CU SN	Level-1-260C-UNLIM	-40 to 125	(C02Q ~ C02R)	Samples
SN74LVC2G02DCUTE4	ACTIVE	US8	DCU	8		TBD	Call TI	Call TI	-40 to 125		Samples
SN74LVC2G02YZPR	ACTIVE	DSBGA	YZP	8	3000	Green (RoHS & no Sb/Br)	SNAGCU	Level-1-260C-UNLIM	-40 to 125	(CB7 ~ CBN)	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.

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)

⁽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.

⁽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.



PACKAGE OPTION ADDENDUM

10-Jun-2014

(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 SN74LVC2G02:

Enhanced Product: SN74LVC2G02-EP

NOTE: Qualified Version Definitions:

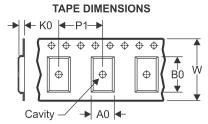
• Enhanced Product - Supports Defense, Aerospace and Medical Applications

PACKAGE MATERIALS INFORMATION

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TAPE AND REEL INFORMATION





	Dimension designed to accommodate the component width
	Dimension designed to accommodate the component length
K0	Dimension designed to accommodate the component thickness
W	Overall width of the carrier tape
P1	Pitch between successive cavity centers

QUADRANT ASSIGNMENTS FOR PIN 1 ORIENTATION IN TAPE



*All dimensions are nominal

All difficultions are fiorifinal												
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
SN74LVC2G02DCUR	US8	DCU	8	3000	180.0	8.4	2.25	3.35	1.05	4.0	8.0	Q3
SN74LVC2G02DCUR	US8	DCU	8	3000	178.0	9.5	2.25	3.35	1.05	4.0	8.0	Q3
SN74LVC2G02DCUT	US8	DCU	8	250	178.0	9.5	2.25	3.35	1.05	4.0	8.0	Q3
SN74LVC2G02YZPR	DSBGA	YZP	8	3000	178.0	9.2	1.02	2.02	0.63	4.0	8.0	Q1

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*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
SN74LVC2G02DCUR	US8	DCU	8	3000	202.0	201.0	28.0
SN74LVC2G02DCUR	US8	DCU	8	3000	202.0	201.0	28.0
SN74LVC2G02DCUT	US8	DCU	8	250	202.0	201.0	28.0
SN74LVC2G02YZPR	DSBGA	YZP	8	3000	220.0	220.0	35.0

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



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.



DCU (S-PDSO-G8)

PLASTIC SMALL OUTLINE PACKAGE (DIE DOWN)



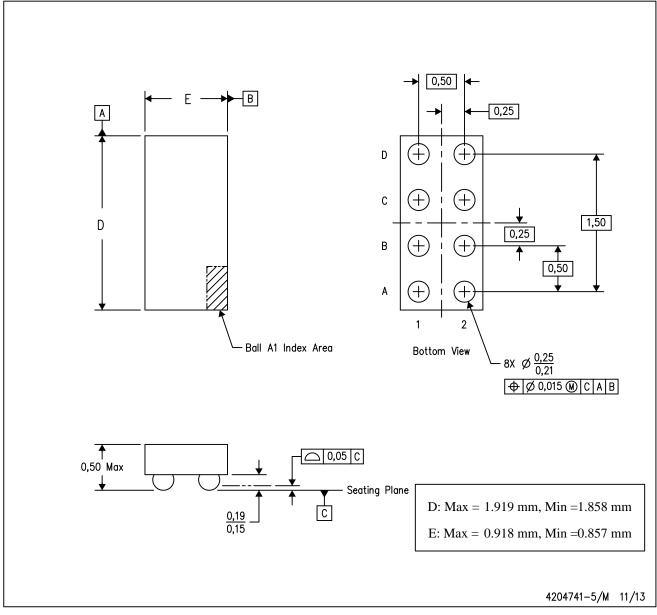
NOTES: A. All linear dimensions are in millimeters.

- B. This drawing is subject to change without notice.
- C. 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



NOTES: A. All linear dimensions are in millimeters. Dimensioning and tolerancing per ASME Y14.5M-1994.

- B. This drawing is subject to change without notice.
- C. NanoFree™ package configuration.

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