

SN74LVC3G06

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SCES364J-AUGUST 2001-REVISED NOVEMBER 2013

Triple Inverter Buffer/Driver With Open-Drain Outputs

Check for Samples: SN74LVC3G06

FEATURES

- Available in the Texas Instruments NanoFree[™] Package
- Supports 5-V V_{CC} Operation
- Input and Open-Drain Output Accepts • Voltages up to 5.5 V
- Max t_{pd} of 3.4 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 $V_{CC} = 3.3 \text{ V}, T_A = 25^{\circ}\text{C}$
- Typical V_{OHV} (Output V_{OH} Undershoot) > 2 V at $V_{CC} = 3.3 V, T_A = 25^{\circ}C$
- Ioff Supports Live Insertion, Partial-Power-• **Down Mode and Back Drive Protection**
- Latch-Up Performance Exceeds 100 mA Per JESD 78, Class II
- ESD Protection Exceeds JESD 22
 - 2000-V Human-Body Model (A114-A)
 - 200-V Machine Model (A115-A)
 - 1000-V Charged-Device Model (C101)

See mechanical drawings for dimensions.

DESCRIPTION

DOLLBACKACE

This triple inverter buffer/driver is designed for 1.65-V to 5.5-V V_{CC} operation.

The output of the SN74LVC3G06 is open drain and can be connected to other open-drain outputs to implement active-low wired-OR or active-high wired-AND functions. The maximum sink current is 32 mA.

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.

-	VIEW)	(TOP VIEW)						
1A 🖂 1	8 🗔 V _{CC}	1A □ 1 3Y □ 2	8 ∐ V _{CC} 7					
3Y 🗔 2	7 🞞 1Y	2A 🔲 3	6 🖽 3A					
2A 🗔 3	6 🗔 3A	GND 🛄 4	5 🛄 2Y					
	5 7 2Y							

YZP PACKAGE	Ξ
(BOTTOM VIEW	/)

GND	O 4 5 O	2Y
2A	O 3 6 O	ЗA
3Y	0270	1Y
1A	O1 8O	V _{CC}

 \overline{M}

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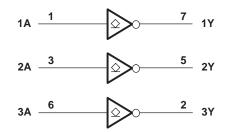
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These devices have limited built-in ESD protection. The leads should be shorted together or the device placed in conductive foam during storage or handling to prevent electrostatic damage to the MOS gates.

Function Table (Each Inverter) INPUT OUTPUT A Y H L			
INPUT A	OUTPUT Y		
Н	L		
L	Н		

LOGIC DIAGRAM (POSITIVE LOGIC)



Absolute Maximum Ratings⁽¹⁾

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

			MIN	МАХ	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 high-impedance or power-off state ⁽²⁾	-0.5	6.5	V
Vo	Voltage range applied to any output in	the high or low state ⁽²⁾ (3)	-0.5	6.5	V
I _{IK}	Input clamp current	V ₁ < 0		-50	mA
I _{OK}	Output clamp current	V _O < 0		-50	mA
lo	Continuous output current			±50	mA
	Continuous current through V_{CC} or GN	D		±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.

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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}			
		$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$	1.7		V	
VIH	High-level input voltage	$V_{CC} = 3 V$ to 3.6 V	2		v	
		$V_{CC} = 4.5 V$ to 5.5 V	$0.7 \times V_{CC}$			
		$V_{CC} = 1.65 \text{ V}$ to 1.95 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	$V_{CC} = 3 V$ to 3.6 V		0.8	v	
		$V_{CC} = 4.5 V$ to 5.5 V		$0.3 \times V_{CC}$		
VI	Input voltage		0	5.5	V	
Vo	Output voltage		0	5.5	V	
		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	ansition rise or fall rate $V_{CC} = 3.3 \text{ V} \pm 0.3 \text{ V}$		10	ns/V	
		$V_{CC} = 5 V \pm 0.5 V$		5		
T _A	Operating free-air temperature		-40	85	°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.

Electrical Characteristics

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

		TEST CONDITIONS	v	-40°C to 85°C	–40°C to 125°C	UNIT
PAR	AWEIER	TEST CONDITIONS	V _{cc}	MIN TYP ⁽¹⁾ MAX	MIN TYP ⁽¹⁾ MAX	UNIT
		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	$\begin{tabular}{ c c c c c c c } \hline I_{OL} &= 4 \text{ mA} \\ \hline I_{OL} &= 8 \text{ mA} \\ \hline I_{OL} &= 16 \text{ mA} \\ \hline I_{OL} &= 24 \text{ mA} \\ \hline I_{OL} &= 32 \text{ mA} \\ \hline I_{OL} &= 32 \text{ mA} \\ \hline V_{I} &= 5.5 \text{ V or GND} \\ \hline V_{I} &= 5.5 \text{ V or GND} \\ \hline V_{I} &= 5.5 \text{ V or GND}, \qquad I_{O} &= 0 \\ \hline \end{tabular}$		2.3 V	0.3	0.3	
V _{OL}		I _{OL} = 16 mA	2.14	0.4	0.4	V
		I _{OL} = 24 mA	3 V	0.55	0.75	
		I _{OL} = 32 mA	4.5 V	0.55	0.75	
I _I	A inputs	$V_1 = 5.5 \text{ V or GND}$	0 to 5.5 V	±5	±5	μA
I _{off}		$V_1 \text{ or } V_0 = 5.5 \text{ V}$	0	±10	±10	μA
I _{CC}		$V_{I} = 5.5 \text{ V or GND}, \qquad I_{O} = 0$	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 _I = V _{CC} or GND	3.3 V	3.5		pF

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

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Switching Characteristics

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

PARAMETER FROM (INPUT)		SN74LVC3G06 40°C to 85°C									
		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}	А	Y	1.8	7.2	1	3.9	1	3.4	1	2.9	ns

Switching Characteristics

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

PARAMETER FROM (INPUT)		SN74LVC3G06 -40°C to 125°C									
		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}	А	Y	1.8	7.8	1	4.5	1	4.0	1	3.5	ns
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°C

PARAMETER		TEST CONDITIONS	V _{CC} = 1.8 V	$V_{CC} = 2.5 V$	V_{CC} = 3.3 V	$V_{CC} = 5 V$	UNIT	
PARAMETER	TEST CONDITIONS	ТҮР	ТҮР	ТҮР	ТҮР	UNIT		
C _{pd}	Power dissipation capacitance	f = 10 MHz	2	2	3	4	pF	

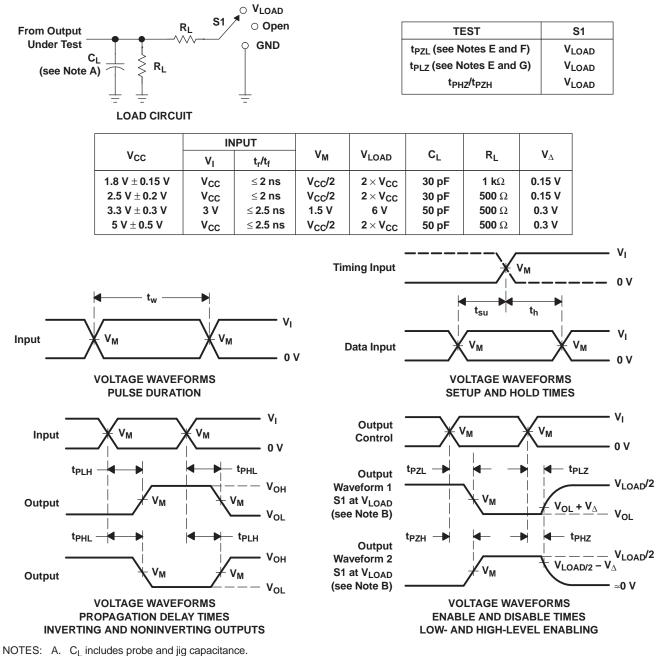




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Parameter Measurement Information (Open Drain)



- 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. Since this device has open-drain outputs, t_{PLZ} and t_{PZL} are the same as t_{od}.
- F. t_{PZL} is measured at V_M.
- G. t_{PLZ} is measured at $V_{OL} + V_{\Delta}$.
- H. All parameters and waveforms are not applicable to all devices.

Figure 1. Load Circuit and Voltage Waveforms

REVISION HISTORY

Changes from Revision I (Feburary 2007) to Revision J Page • Updated document to new TI data sheet format. 1 • Added ESD warning. 2 • Updated operating temperature range. 3

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9-Sep-2016

PACKAGING INFORMATION

Orderable Device	Status	Package Type	•	Pins	•	Eco Plan	Lead/Ball Finish	MSL Peak Temp	Op Temp (°C)	Device Marking	Samples
	(1)		Drawing		Qty	(2)	(6)	(3)		(4/5)	
SN74LVC3G06DCTR	ACTIVE	SM8	DCT	8	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 125	C06 Z	Samples
SN74LVC3G06DCTRE4	ACTIVE	SM8	DCT	8	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 125	C06 Z	Samples
SN74LVC3G06DCUR	ACTIVE	VSSOP	DCU	8	3000	Green (RoHS & no Sb/Br)	CU NIPDAU CU SN	Level-1-260C-UNLIM	-40 to 125	(C06Q ~ C06R)	Samples
SN74LVC3G06DCURG4	ACTIVE	VSSOP	DCU	8	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 125	C06R	Samples
SN74LVC3G06DCUT	ACTIVE	VSSOP	DCU	8	250	Green (RoHS & no Sb/Br)	CU NIPDAU CU SN	Level-1-260C-UNLIM	-40 to 125	(C06Q ~ C06R)	Samples
SN74LVC3G06YZPR	ACTIVE	DSBGA	YZP	8	3000	Green (RoHS & no Sb/Br)	SNAGCU	Level-1-260C-UNLIM	-40 to 85	CTN	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)

⁽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.



PACKAGE OPTION ADDENDUM

9-Sep-2016

(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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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
SN74LVC3G06DCTR	SM8	DCT	8	3000	180.0	13.0	3.35	4.5	1.55	4.0	12.0	Q3
SN74LVC3G06DCUR	VSSOP	DCU	8	3000	178.0	9.5	2.25	3.35	1.05	4.0	8.0	Q3
SN74LVC3G06DCUR	VSSOP	DCU	8	3000	180.0	8.4	2.25	3.35	1.05	4.0	8.0	Q3
SN74LVC3G06DCURG4	VSSOP	DCU	8	3000	180.0	8.4	2.25	3.35	1.05	4.0	8.0	Q3
SN74LVC3G06DCUT	VSSOP	DCU	8	250	178.0	9.5	2.25	3.35	1.05	4.0	8.0	Q3
SN74LVC3G06YZPR	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

10-Aug-2016



*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
SN74LVC3G06DCTR	SM8	DCT	8	3000	182.0	182.0	20.0
SN74LVC3G06DCUR	VSSOP	DCU	8	3000	202.0	201.0	28.0
SN74LVC3G06DCUR	VSSOP	DCU	8	3000	202.0	201.0	28.0
SN74LVC3G06DCURG4	VSSOP	DCU	8	3000	202.0	201.0	28.0
SN74LVC3G06DCUT	VSSOP	DCU	8	250	202.0	201.0	28.0
SN74LVC3G06YZPR	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.



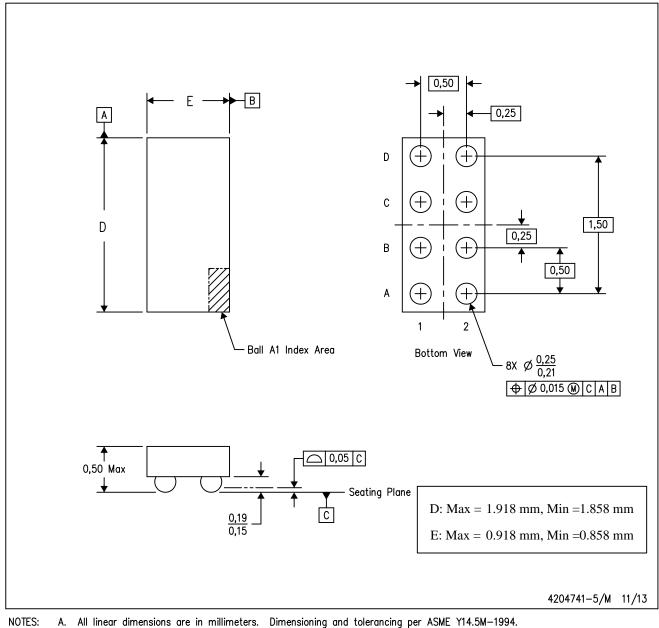


- NOTES: A. All linear dimensions are in millimeters. В. This drawing is subject to change without notice.
 - C. Publication IPC-7351 is recommended for alternate designs.
 - D. Laser cutting apertures with trapezoidal walls and also rounding corners will offer better paste release. Customers should 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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