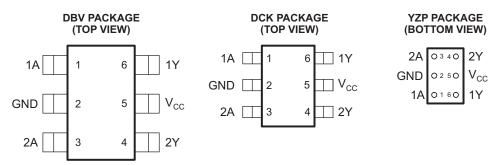


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### FEATURES

- Available in the Texas Instruments NanoFree<sup>™</sup> Package
- Optimized for 1.8-V Operation and Is 3.6-V I/O **Tolerant to Support Mixed-Mode Signal** Operation
- Ioff Supports Partial-Power-Down Mode Operation
- Sub-1-V Operable
- Max t<sub>nd</sub> of 2.5 ns at 1.8 V

- Low Power Consumption, 10 µA at 1.8 V
- ±8-mA Output Drive at 1.8 V
- 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/ORDERING INFORMATION**

This dual inverter buffer/driver is operational at 0.8-V to 2.7-V  $V_{CC}$ , but is designed specifically for 1.65-V to 1.95-V V<sub>CC</sub> operation.

The output of the SN74AUC2G06 device 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<sup>™</sup> 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<sub>off</sub>. The I<sub>off</sub> circuitry disables the outputs, preventing damaging current backflow through the device when it is powered down.

## **ORDERING INFORMATION**

T <sub>A</sub>	PACKAGE <sup>(1)</sup>		ORDERABLE PART NUMBER	TOP-SIDE MARKING <sup>(2)</sup>
	NanoFree™ – WCSP (DSBGA) 0.23-mm Large Bump – YZP (Pb-free)	Reel of 3000	SN74AUC2G06YZPR	UT_
–40°C to 85°C	SOT (SOT-23) – DBV	Reel of 3000	SN74AUC2G06DBVR	U06_
	SOT (SC-70) – DCK	Reel of 3000	SN74AUC2G06DCKR	UT_

(1) Package drawings, standard packing quantities, thermal data, symbolization, and PCB design guidelines are available at www.ti.com/sc/package.

DBV/DCK: The actual top-side marking has one additional character that designates the assembly/test site. (2) YZP: The actual top-side marking has three preceding characters to denote year, month, and sequence code, and one following character to designate the assembly/test site.



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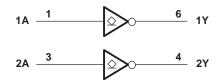
# SN74AUC2G06 **DUAL INVERTER BUFFER/DRIVER** WITH OPEN-DRAIN OUTPUTS

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#### **FUNCTION TABLE** (EACH INVERTER)

INPUT A	OUTPUT Y
Н	L
L	н

#### LOGIC DIAGRAM (POSITIVE LOGIC)



## Absolute Maximum Ratings<sup>(1)</sup>

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

			MIN	MAX	UNIT		
V <sub>CC</sub>	Supply voltage range		-0.5	3.6	V		
VI	Input voltage range <sup>(2)</sup>	Input voltage range <sup>(2)</sup>					
Vo	Voltage range applied to any output in the h	-0.5	3.6	V			
Vo	Output voltage range <sup>(2)</sup>		-0.5	V <sub>CC</sub> + 0.5	V		
I <sub>IK</sub>	Input clamp current	V <sub>1</sub> < 0		-50	mA		
I <sub>OK</sub>	Output clamp current	V <sub>O</sub> < 0		-50	mA		
I <sub>O</sub>	Continuous output current			±20	mA		
	Continuous current through $V_{CC}$ or GND			±100	mA		
		DBV package		165			
$\theta_{JA}$	Package thermal impedance <sup>(3)</sup>	DCK package		259	°C/W		
		YZP package		123			
T <sub>stg</sub>	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 package thermal impedance is calculated in accordance with JESD 51-7.

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## **Recommended Operating Conditions**<sup>(1)</sup>

			MIN	MAX	UNIT
V <sub>CC</sub>	Supply voltage		0.8	2.7	V
		V <sub>CC</sub> = 0.8 V	V <sub>CC</sub>		
V <sub>IH</sub>	High-level input voltage	V <sub>CC</sub> = 1.1 V to 1.95 V	0.65 × V <sub>CC</sub>		V
		$V_{CC}$ = 2.3 V to 2.7 V	1.7		
		$V_{CC} = 0.8 V$		0	
VIL	Low-level input voltage	$V_{CC} = 1.1 \text{ V to } 1.95 \text{ V}$		$0.35 \times V_{CC}$	V
		$V_{CC}$ = 2.3 V to 2.7 V		0.7	
VI	Input voltage		0	3.6	V
Vo	Output voltage		0	3.6	V
		V <sub>CC</sub> = 0.8 V		0.7	
		V <sub>CC</sub> = 1.1 V		3	
I <sub>OL</sub>	Low-level output current	$V_{CC} = 1.4 V$		5	mA
		V <sub>CC</sub> = 1.65 V		8	
		V <sub>CC</sub> = 2.3 V		9	
$\Delta t / \Delta v$	Input transition rise or fall rate			20	ns/V
T <sub>A</sub>	Operating free-air temperature		-40	85	°C

(1) All unused inputs of the device must be held at V<sub>CC</sub> 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)

PARAMETE	R TEST CONDITIONS	V <sub>cc</sub>	MIN TYP <sup>(1)</sup> MAX	UNIT
	I <sub>OL</sub> = 100 μA	0.8 V to 2.7 V	0.2	
	I <sub>OL</sub> = 0.7 mA	0.8 V	0.25	
V	I <sub>OL</sub> = 3 mA	1.1 V	0.3	V
V <sub>OL</sub>	I <sub>OL</sub> = 5 mA	1.4 V	0.4	v
	I <sub>OL</sub> = 8 mA	1.65 V	0.45	
	I <sub>OL</sub> = 9 mA	2.3 V	0.6	
I <sub>I</sub> A inputs	V <sub>I</sub> = V <sub>CC</sub> or GND	0 to 2.7 V	±5	μΑ
l <sub>off</sub>	$V_1 \text{ or } V_0 = 2.7 \text{ V}$	0	±10	μA
I <sub>CC</sub>	$V_{I} = V_{CC} \text{ or } GND, \qquad I_{O} = 0$	0.8 V to 2.7 V	10	μA
C <sub>i</sub>	V <sub>I</sub> = V <sub>CC</sub> or GND	2.5 V	2.5	pF

(1) All typical values are at  $T_A = 25^{\circ}C$ .

# SN74AUC2G06 DUAL INVERTER BUFFER/DRIVER WITH OPEN-DRAIN OUTPUTS

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#### **Switching Characteristics**

over recommended operating free-air temperature range,  $C_L = 15 \text{ pF}$  (unless otherwise noted) (see Figure 1)

PARAMETER	FROM (INPUT)	TO (OUTPUT)	V <sub>CC</sub> = 0.8 V	V <sub>CC</sub> = ± 0.			V <sub>CC</sub> = 1.5 V V <sub>CC</sub> = 1.8 V ± 0.1 V ± 0.15 V		$V_{CC}$ = 2.5 V $\pm$ 0.2 V		UNIT		
	(INPOT)	(001901)	TYP	MIN	MAX	MIN	MAX	MIN	TYP	MAX	MIN	MAX	
t <sub>PLH</sub>	^	X	4.1	1.8	3.3	1.4	2.8	1.6	2.4	3	1.5	2.3	20
t <sub>PHL</sub>	A	ř	4.2	0.8	2.7	0.6	2	0.6	1	1.7	0.6	1.1	ns

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#### **Switching Characteristics**

over recommended operating free-air temperature range,  $C_L = 30 \text{ pF}$  (unless otherwise noted) (see Figure 1)

PARAMETER	FROM (INPUT)	TO (OUTPUT)	v <sub>c</sub>	<sub>c</sub> = 1.8 0.15 V	,v	V <sub>CC</sub> = ± 0.	2.5 V 2 V	UNIT
	(INFUT)	(001201)	MIN	TYP	MAX	MIN	MAX	
t <sub>PLH</sub>	٨	V	1.6	2	2.5	0.7	1.2	
t <sub>PHL</sub>	A	Ť	0.7	1.5	2.3	0.7	1.8	ns

### **Operating Characteristics**

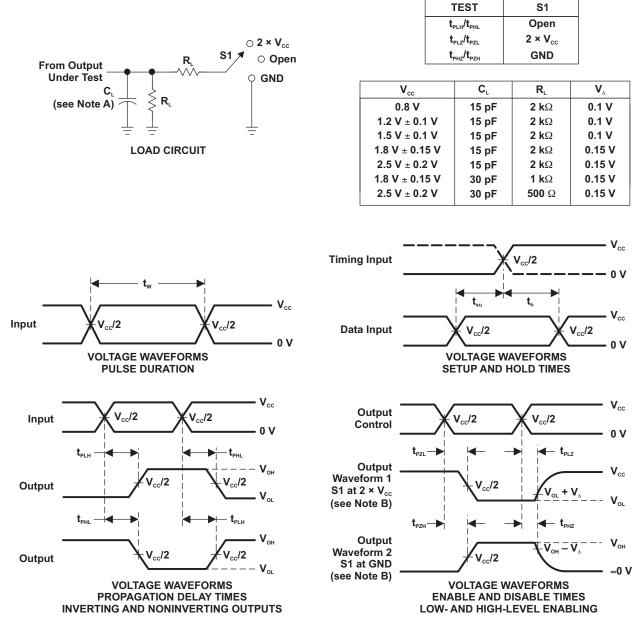
 $T_A = 25^{\circ}C$ 

	PARAMETER	TEST CONDITIONS	V <sub>CC</sub> = 0.8 V TYP	V <sub>CC</sub> = 1.2 V TYP	V <sub>CC</sub> = 1.5 V TYP	V <sub>CC</sub> = 1.8 V TYP	V <sub>CC</sub> = 2.5 V TYP	UNIT
C <sub>pd</sub>	Power dissipation capacitance	f = 10 MHz	2	2	2	2	3	pF

## SN74AUC2G06 **DUAL INVERTER BUFFER/DRIVER** WITH OPEN-DRAIN OUTPUTS

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#### PARAMETER MEASUREMENT INFORMATION



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<sub>o</sub> = 50 Ω,
- slew rate  $\geq$  1 V/ns.
- D. The outputs are measured one at a time, with one transition per measurement.
- E.  $t_{_{PLZ}}$  and  $\dot{t}_{_{PHZ}}$  are the same as  $t_{_{dis}}$ .
- F.  $t_{\mbox{\tiny PZL}}$  and  $t_{\mbox{\tiny PZH}}$  are the same as  $t_{\mbox{\tiny en}}.$
- G.  $t_{PIH}$  and  $t_{PHI}$  are the same as  $t_{od}$ .

Figure 1. Load Circuit and Voltage Waveforms



26-Mar-2013

## PACKAGING INFORMATION

Orderable Device	Status	Package Type	•	Pins	Package	Eco Plan	Lead/Ball Finish	MSL Peak Temp	Op Temp (°C)	Top-Side Markings	Samples
	(1)		Drawing		Qty	(2)		(3)		(4)	
SN74AUC2G06DBVR	ACTIVE	SOT-23	DBV	6	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	(U062 ~ U06R)	Samples
SN74AUC2G06DBVRE4	ACTIVE	SOT-23	DBV	6	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	(U062 ~ U06R)	Samples
SN74AUC2G06DBVRG4	ACTIVE	SOT-23	DBV	6	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	(U062 ~ U06R)	Samples
SN74AUC2G06DCKR	ACTIVE	SC70	DCK	6	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	UTR	Samples
SN74AUC2G06DCKRE4	ACTIVE	SC70	DCK	6	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	UTR	Samples
SN74AUC2G06DCKRG4	ACTIVE	SC70	DCK	6	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	UTR	Samples
SN74AUC2G06YZPR	ACTIVE	DSBGA	YZP	6	3000	Green (RoHS & no Sb/Br)	SNAGCU	Level-1-260C-UNLIM	-40 to 85	(UT7 ~ UTN)	Samples

<sup>(1)</sup> 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)

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

<sup>(4)</sup> Multiple Top-Side Markings will be inside parentheses. Only one Top-Side 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 Top-Side Marking for that device.



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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	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
SN74AUC2G06DBVR	SOT-23	DBV	6	3000	180.0	8.4	3.23	3.17	1.37	4.0	8.0	Q3
SN74AUC2G06DCKR	SC70	DCK	6	3000	180.0	8.4	2.25	2.4	1.22	4.0	8.0	Q3
SN74AUC2G06YZPR	DSBGA	YZP	6	3000	178.0	9.2	1.02	1.52	0.63	4.0	8.0	Q1

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# PACKAGE MATERIALS INFORMATION

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\*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
SN74AUC2G06DBVR	SOT-23	DBV	6	3000	202.0	201.0	28.0
SN74AUC2G06DCKR	SC70	DCK	6	3000	202.0	201.0	28.0
SN74AUC2G06YZPR	DSBGA	YZP	6	3000	220.0	220.0	35.0

DBV (R-PDSO-G6)

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. Mold flash and protrusion shall not exceed 0.15 per side.
- D. Leads 1,2,3 may be wider than leads 4,5,6 for package orientation.
- È. Falls within JEDEC MO-178 Variation AB, except minimum lead width.



# LAND PATTERN DATA



NOTES:

- A. All linear dimensions are in millimeters.B. This drawing is subject to change without notice.
- C. Customers should place a note on the circuit board fabrication drawing not to alter the center solder mask defined pad.
- D. Publication IPC-7351 is recommended for alternate designs.
- E. 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. Example stencil design based on a 50% volumetric metal load solder paste. Refer to IPC-7525 for other stencil recommendations.



DCK (R-PDSO-G6)

PLASTIC SMALL-OUTLINE PACKAGE

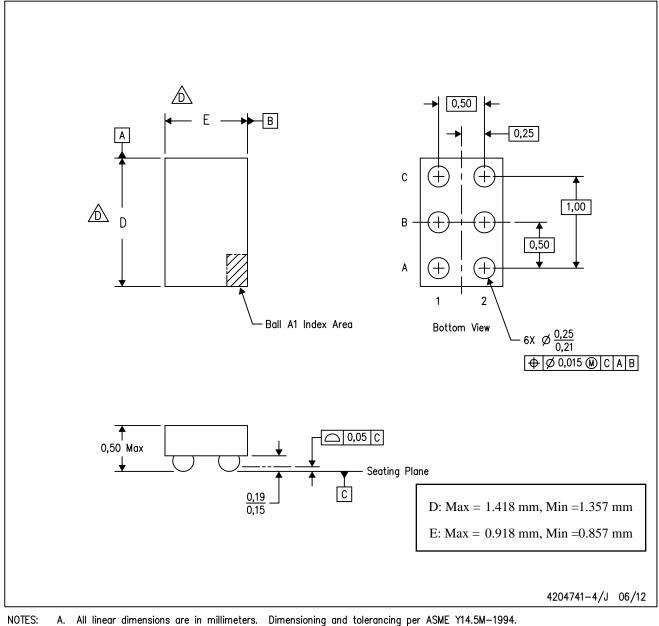


- NOTES: A. All linear dimensions are in millimeters.
  - B. This drawing is subject to change without notice.
  - C. Body dimensions do not include mold flash or protrusion. Mold flash and protrusion shall not exceed 0.15 per side.
  - D. Falls within JEDEC MO-203 variation AB.



YZP (R-XBGA-N6)

DIE-SIZE BALL GRID ARRAY



- A. All linear dimensions are in millimeters. DimensioniB. This drawing is subject to change without notice.
- C. NanoFree™ package configuration.
- The package size (Dimension D and E) of a particular device is specified in the device Product Data Sheet version of this drawing, in case it cannot be found in the product data sheet please contact a local TI representative.
- E. This package is a Pb-free solder ball design. Refer to the 6 YEP package (drawing 4204725) for tin-lead (SnPb).

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