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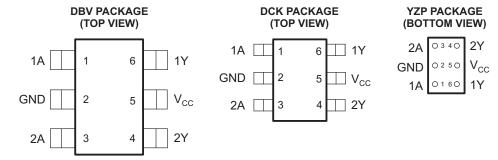


## **DUAL BUFFER/DRIVER WITH OPEN-DRAIN OUTPUTS**

#### **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
- I<sub>off</sub> Supports Partial-Power-Down Mode Operation
- **Sub-1-V Operable**
- Max t<sub>pd</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 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  $V_{CC}$ operation.

The output of the SN74AUC2G07 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<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 <sup>™</sup> – WCSP (DSBGA) 0.23-mm Large Bump – YZP (Pb-free)	Reel of 3000	SN74AUC2G07YZPR	UV_
-40C to 85C	SOT (SOT-23) – DBV	Reel of 3000	SN74AUC2G07DBVR	1107
	301 (301-23) – DBV	Reel of 250	SN74AUC2G07DBVT	U07_
	SOT (SC-70) – DCK	Reel of 3000	SN74AUC2G07DCKR	UV_

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

M NanoFree is a trademark of Texas Instruments.

Please be aware that an important notice concerning availability, standard warranty, and use in critical applications of Texas Instruments semiconductor products and disclaimers thereto appears at the end of this data sheet.

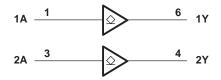
DBV/DCK: The actual top-side marking has one additional character that designates the assembly/test site. YZP: The actual top-side marking has three preceding characters to denote year, month, and sequence code, and one following character to designate the assembly/test site.



# FUNCTION TABLE (EACH BUFFER/DRIVER)

INPUT A	OUTPUT Y
Н	Н
L	L

## **LOGIC DIAGRAM (POSITIVE LOGIC)**



## ABSOLUTE MAXIMUM RATINGS(1)

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>		-0.5	3.6	V	
Vo	Voltage range applied to any output in the h	nigh-impedance or power-off state (2)	-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	
lok	Output clamp current	V <sub>O</sub> < 0		-50	mA	
Io	Continuous output current			±20	mA	
	Continuous current through V <sub>CC</sub> or GND			±100	mA	
		DBV package		165		
$\theta_{JA}$	Package thermal impedance (3)	DCK package		259	C/W	
		YZP package		123		
T <sub>stg</sub>	Storage temperature range		-65	150	С	

<sup>(1)</sup> 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.

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

<sup>(3)</sup> The package thermal impedance is calculated in accordance with JESD 51-7.

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## RECOMMENDED OPERATING CONDITIONS(1)

			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>			
$V_{IH}$	High-level input voltage	V <sub>CC</sub> = 1.1 V to 1.95 V	0.65 کاV <sub>CC</sub>		V	
		$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$	1.7			
		V <sub>CC</sub> = 0.8 V		0		
$V_{IL}$	Low-level input voltage	V <sub>CC</sub> = 1.1 V to 1.95 V		0.35 1V <sub>CC</sub>		
		V <sub>CC</sub> = 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		
$I_{OL}$	Low-level output current	V <sub>CC</sub> = 1.4 V		5	mA	
		V <sub>CC</sub> = 1.65 V				
		V <sub>CC</sub> = 2.3 V		9		
Δt/Δν	Input transition rise or fall rate			20	ns/V	
T <sub>A</sub>	Operating free-air temperature		-40	85	С	

<sup>(1)</sup> 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)

PA	RAMETER	TEST CONDITIONS		V <sub>cc</sub>	MIN TYP <sup>(1)</sup>	MAX	UNIT
		$I_{OL} = 100 \mu A$	0.8 V to 2.7 V		0.2		
V <sub>OL</sub>		$I_{OL} = 0.7 \text{ mA}$	0.8 V	0.25			
		I <sub>OL</sub> = 3 mA		1.1 V		0.3	V
		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	A inputs	$V_I = V_{CC}$ or GND		0 to 2.7 V		±5	μΑ
I <sub>off</sub>		$V_I$ or $V_O = 2.7 V$		0		±10	μΑ
I <sub>CC</sub>		$V_I = V_{CC}$ or GND,	$I_{O} = 0$	0.8 V to 2.7 V		10	μΑ
Ci		$V_I = V_{CC}$ or GND	ND .		2.5		pF

<sup>(1)</sup> All typical values are at  $T_A = 25C$ .



#### **SWITCHING CHARACTERISTICS**

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

PA	RAMETER	FROM (INPUT)	TO (OUTPUT)	V <sub>CC</sub> = 0.8 V	V <sub>CC</sub> = ± 0.		V <sub>CC</sub> = ± 0.	1.5 V 1 V		<sub>C</sub> = 1.8 0.15 V		V <sub>CC</sub> = ± 0.		UNIT
		(INPUT)	(001701)	TYP	MIN	MAX	MIN	MAX	MIN	TYP	MAX	MIN	MAX	
	t <sub>PLH</sub>	^	V	4.3	1.2	3	1	2.2	1	1.8	2.5	0.9	1.6	20
	t <sub>PHL</sub>	A	Ť	6.2	1	3.1	0.6	2.3	0.6	1	1.9	0.6	1.2	ns

## **SWITCHING CHARACTERISTICS**

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

PARAMETER	PARAMETER FROM TO (OUTPUT)		V <sub>CC</sub> = 1.8 V ± 0.15 V		V <sub>CC</sub> = 2.5 V ± 0.2 V		UNIT	
	(INFOI)	(001701)	MIN	TYP	MAX	MIN	MAX	
t <sub>PLH</sub>	٨	V	1	2	2.5	0.6	1.2	no
t <sub>PHL</sub>	A	I	0.9	1.5	2.3	0.8	1.8	ns

## **OPERATING CHARACTERISTICS**

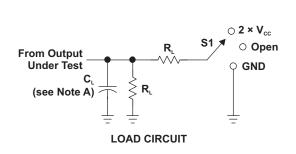
 $T_A = 25C$ 

	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
$C_{pd}$	Power dissipation capacitance	f = 10 MHz	2.5	2.5	2.5	2.5	3.5	pF

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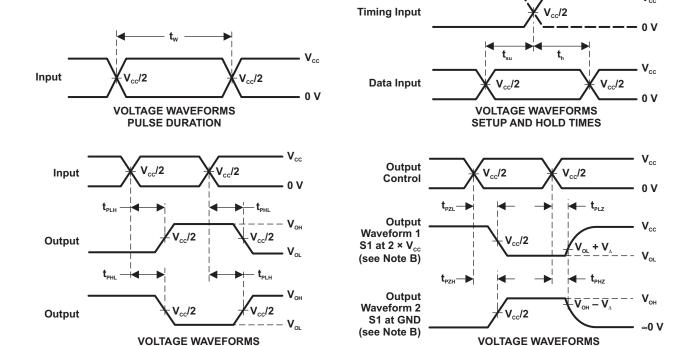


#### PARAMETER MEASUREMENT INFORMATION



TEST	S1
t <sub>PLH</sub> /t <sub>PHL</sub>	Open
$t_{_{\mathrm{PLZ}}}/t_{_{\mathrm{PZL}}}$	2 × V <sub>cc</sub>
t <sub>PHZ</sub> /t <sub>PZH</sub>	GND

V <sub>cc</sub>	C <sub>∟</sub>	R <sub>∟</sub>	V <sub>Δ</sub>
0.8 V	15 pF	<b>2 k</b> Ω	0.1 V
1.2 V ± 0.1 V	15 pF	<b>2 k</b> Ω	0.1 V
1.5 V ± 0.1 V	15 pF	<b>2 k</b> Ω	0.1 V
1.8 V ± 0.15 V	15 pF	<b>2</b> kΩ	0.15 V
2.5 V ± 0.2 V	15 pF	<b>2 k</b> Ω	0.15 V
1.8 V ± 0.15 V	30 pF	<b>1 k</b> Ω	0.15 V
2.5 V ± 0.2 V	30 pF	500 Ω	0.15 V



NOTES: A.  $C_L$  includes probe and jig capacitance.

PROPAGATION DELAY TIMES

**INVERTING AND NONINVERTING OUTPUTS** 

- 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  $\Omega$ , slew rate  $\geq$  1 V/ns.
- 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.  $t_{PlH}$  and  $t_{PHI}$  are the same as  $t_{pd}$ .

Figure 1. Load Circuit and Voltage Waveforms

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**ENABLE AND DISABLE TIMES** 

**LOW- AND HIGH-LEVEL ENABLING** 







#### **PACKAGING INFORMATION**

Orderable Device	Status <sup>(1)</sup>	Package Type	Package Drawing	Pins	Package Qty	e Eco Plan <sup>(2)</sup>	Lead/Ball Finish	MSL Peak Temp <sup>(3)</sup>
SN74AUC2G07DBVR	ACTIVE	SOT-23	DBV	6	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74AUC2G07DBVRE4	ACTIVE	SOT-23	DBV	6	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74AUC2G07DBVRG4	ACTIVE	SOT-23	DBV	6	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74AUC2G07DBVT	ACTIVE	SOT-23	DBV	6	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74AUC2G07DBVTG4	ACTIVE	SOT-23	DBV	6	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74AUC2G07DCKR	ACTIVE	SC70	DCK	6	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74AUC2G07DCKRE4	ACTIVE	SC70	DCK	6	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74AUC2G07DCKRG4	ACTIVE	SC70	DCK	6	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74AUC2G07YZPR	ACTIVE	DSBGA	YZP	6	3000	Green (RoHS & no Sb/Br)	SNAGCU	Level-1-260C-UNLIM

(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.

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## **PACKAGE MATERIALS INFORMATION**

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## TAPE AND REEL INFORMATION





	Dimension designed to accommodate the component width
B0	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 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
SN74AUC2G07DBVR	SOT-23	DBV	6	3000	180.0	8.4	3.23	3.17	1.37	4.0	8.0	Q3
SN74AUC2G07DBVR	SOT-23	DBV	6	3000	178.0	9.0	3.23	3.17	1.37	4.0	8.0	Q3
SN74AUC2G07DBVT	SOT-23	DBV	6	250	180.0	8.4	3.23	3.17	1.37	4.0	8.0	Q3
SN74AUC2G07DCKR	SC70	DCK	6	3000	178.0	9.2	2.4	2.4	1.22	4.0	8.0	Q3
SN74AUC2G07YZPR	DSBGA	YZP	6	3000	178.0	9.2	1.02	1.52	0.63	4.0	8.0	Q1

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\*All dimensions are nominal

All difficultions are norminal							
Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
SN74AUC2G07DBVR	SOT-23	DBV	6	3000	202.0	201.0	28.0
SN74AUC2G07DBVR	SOT-23	DBV	6	3000	180.0	180.0	18.0
SN74AUC2G07DBVT	SOT-23	DBV	6	250	202.0	201.0	28.0
SN74AUC2G07DCKR	SC70	DCK	6	3000	180.0	180.0	18.0
SN74AUC2G07YZPR	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.
- Falls within JEDEC MO-178 Variation AB, except minimum lead width.



## DBV (R-PDSO-G6)

## PLASTIC SMALL OUTLINE



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.



## DCK (R-PDSO-G6)

## PLASTIC SMALL OUTLINE



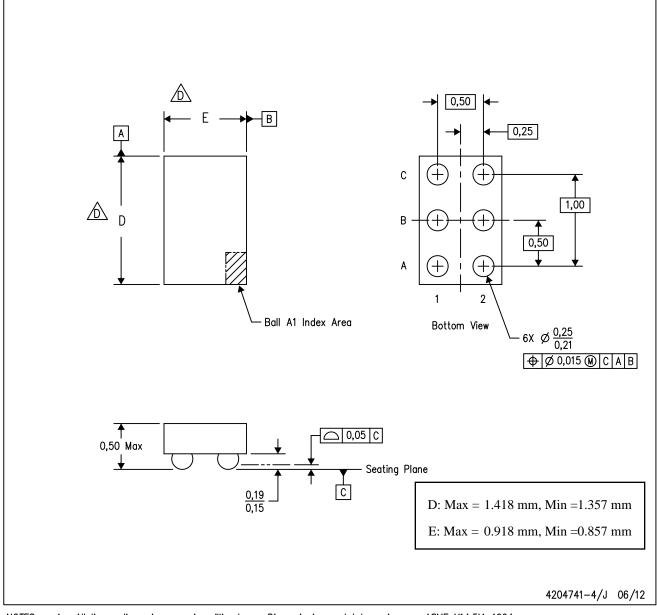
NOTES:

- 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.



YZP (R-XBGA-N6)

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.
- 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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