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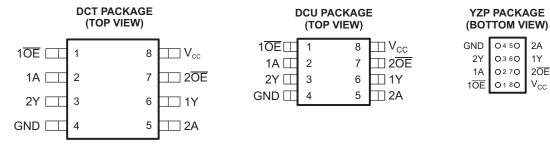
Jameco Part Number 1046203



#### **FEATURES**

- Available in the Texas Instruments
   NanoFree™ Package
- Supports 5-V V<sub>CC</sub> Operation
- Inputs Accept Voltages to 5.5 V
- Max t<sub>nd</sub> of 4.3 ns at 3.3 V
- Low Power Consumption, 10-μA Max I<sub>CC</sub>
- ±24-mA Output Drive at 3.3 V
- Typical V<sub>OLP</sub> (Output Ground Bounce)
   <0.8 V at V<sub>CC</sub> = 3.3 V, T<sub>A</sub> = 25°C
- Typical V<sub>OHV</sub> (Output V<sub>OH</sub> Undershoot)
   >2 V at V<sub>CC</sub> = 3.3 V, T<sub>Δ</sub> = 25°C

- I<sub>off</sub> 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)
  - 200-V Machine Model (A115-A)
  - 1000-V Charged-Device Model (C101)



See mechanical drawings for dimensions.

### **DESCRIPTION/ORDERING INFORMATION**

The SN74LVC2G125 is a dual bus buffer gate, designed for 1.65-V to 5.5-V  $V_{CC}$  operation. This device features dual line drivers with 3-state outputs. The outputs are disabled when the associated output-enable ( $\overline{OE}$ ) input is high.

NanoFree<sup>™</sup> package technology is a major breakthrough in IC packaging concepts, using the die as the package.

To ensure the high-impedance state during power up or power down,  $\overline{\text{OE}}$  should be tied to  $V_{\text{CC}}$  through a pullup resistor; the minimum value of the resistor is determined by the current-sinking capability of the driver.

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.

#### **ORDERING INFORMATION**

T <sub>A</sub>	PACKAGE <sup>(1)</sup>		ORDERABLE PART NUMBER	TOP-SIDE MARKING(2)		
	NanoFree <sup>™</sup> – WCSP (DSBGA) 0.23-mm Large Bump – YZP (Pb-free)	Reel of 3000	SN74LVC2G125YZPR	CM_		
-40°C to 85°C	SSOP - DCT	Reel of 3000	SN74LVC2G125DCTR	C25		
		Reel of 3		SN74LVC2G125DCUR	005	
	VSSOP – DCU	Reel of 250	SN74LVC2G125DCUT	C25_		

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

<sup>(2)</sup> DCT: The actual top-side marking has three additional characters that designate the year, month, and assembly/test site. DCU: 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. Pin 1 identifier indicates solder-bump composition (1 = SnPb, • = Pb-free).



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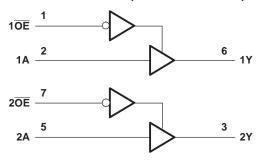
NanoFree is a trademark of Texas Instruments.



# FUNCTION TABLE (EACH BUFFER)

INPL	JTS	OUTPUT
ŌĒ	Α	Y
L	Н	Н
L	L	L
Н	Χ	Z

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



## **Absolute Maximum Ratings**(1)

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

			MII	N MAX	UNIT	
$V_{CC}$	Supply voltage range		-0.	5 6.5	V	
VI	Input voltage range <sup>(2)</sup>		-0.	5 6.5	V	
Vo	Voltage range applied to any output in the high	n-impedance or power-off state (2)	-0.	5 6.5	V	
Vo	Voltage range applied to any output in the high	n or low state (2)(3)	-0.	5 V <sub>CC</sub> + 0.5	V	
$I_{IK}$	Input clamp current	V <sub>1</sub> < 0		-50	mA	
I <sub>OK</sub>	Output clamp current $V_O < 0$			-50	mA	
Io	Continuous output current			±50	mA	
	Continuous current through V <sub>CC</sub> or GND			±100	mA	
		DCT package		220		
$\theta_{JA}$	O <sub>JA</sub> Package thermal impedance (4)	DCU package		227	°C/W	
		YZP package		102		
T <sub>stg</sub>	Storage temperature range		-6	5 150	°C	

<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 clamp-current ratings are observed.

<sup>(3)</sup> The value of V<sub>CC</sub> is provided in the recommended operating conditions table.

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

**SN74LVC2G125** 



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

			MIN	MAX	UNIT	
.,	Complexional	Operating	1.65	5.5	V	
$V_{CC}$	Supply voltage	Data retention only	1.5		V	
		V <sub>CC</sub> = 1.65 V to 1.95 V	0.65 × V <sub>CC</sub>			
\/	High lovel input voltage	$V_{CC}$ = 2.3 V to 2.7 V	1.7		V	
$V_{IH}$	High-level input voltage	$V_{CC} = 3 \text{ V to } 3.6 \text{ V}$	2		V	
		$V_{CC} = 4.5 \text{ V to } 5.5 \text{ V}$	0.7 × V <sub>CC</sub>			
		V <sub>CC</sub> = 1.65 V to 1.95 V		0.35 × V <sub>CC</sub>		
.,	Law lavel is not valte as	$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$		0.7	V	
$V_{IL}$	Low-level input voltage	V <sub>CC</sub> = 3 V to 3.6 V		0.8	V	
		V <sub>CC</sub> = 4.5 V to 5.5 V		0.3 × V <sub>CC</sub>		
VI	Input voltage	,	0	5.5	V	
.,	Outrot valta na	High or low state	0	V <sub>CC</sub>	V	
V <sub>O</sub>	O Output voltage	3-state	0	5.5	V	
		V <sub>CC</sub> = 1.65 V		-4		
		V <sub>CC</sub> = 2.3 V		-8		
I <sub>OH</sub>	High-level output current			-16	mA	
		V <sub>CC</sub> = 3 V		-24		
		V <sub>CC</sub> = 4.5 V		-32		
		V <sub>CC</sub> = 1.65 V		4		
		V <sub>CC</sub> = 2.3 V		8		
I <sub>OL</sub>	Low-level output current			16	mA	
		V <sub>CC</sub> = 3 V		24		
		V <sub>CC</sub> = 4.5 V				
		$V_{CC} = 1.8 \text{ V} \pm 0.15 \text{ V}, 2.5 \text{ V} \pm 0.2 \text{ V}$	32			
Δt/Δν	t/∆v 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 <sub>A</sub>	Operating free-air temperature	,	-40	85	°C	

<sup>(1)</sup> 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)

P	ARAMETER	TEST CONDITIONS	V <sub>cc</sub>	MIN TYP <sup>(1)</sup>	VAX	UNIT
		$I_{OH} = -100 \mu A$	1.65 V to 5.5 V	V <sub>CC</sub> – 0.1		
		$I_{OH} = -4 \text{ mA}$	1.65 V	1.2		
V		$I_{OH} = -8 \text{ mA}$	2.3 V	1.9		V
V <sub>OH</sub>		$I_{OH} = -16 \text{ mA}$	3 V	2.4		V
		$I_{OH} = -24 \text{ mA}$	3 V	2.3		
		$I_{OH} = -32 \text{ mA}$	4.5 V	3.8		
		$I_{OL} = 100 \mu A$	1.65 V to 5.5 V		0.1	
		$I_{OL} = 4 \text{ mA}$	1.65 V			
V	V <sub>OL</sub>	$I_{OL} = 8 \text{ mA}$	2.3 V		0.3	V
V OL		I <sub>OL</sub> = 16 mA	3 V		0.4	v
		I <sub>OL</sub> = 24 mA	3 V		0.55	
		I <sub>OL</sub> = 32 mA	4.5 V		0.55	
I <sub>I</sub>	A or OE inputs	$V_I = 5.5 \text{ V or GND}$	0 to 5.5 V		±5	μΑ
I <sub>off</sub>		$V_I$ or $V_O = 5.5 \text{ V}$	0		±10	μΑ
$I_{OZ}$		$V_0 = 0 \text{ to } 5.5 \text{ V}$	3.6 V		10	μΑ
I <sub>CC</sub>		$V_I = 5.5 \text{ V or GND}, \qquad I_O = 0$	1.65 V to 5.5 V		10	μΑ
$\Delta I_{CC}$		One input at $V_{CC}$ – 0.6 V, Other inputs at $V_{CC}$ or GND	3 V to 5.5 V		500	μΑ
_	Data inputs	V – V or CND	3.3 V	3.5		nE
Ci	Control inputs	$V_{I} = V_{CC}$ or GND	3.3 V	4		pF
Co		$V_O = V_{CC}$ or GND	3.3 V	6.5		pF

<sup>(1)</sup> All typical values are at  $V_{CC} = 3.3 \text{ V}$ ,  $T_A = 25^{\circ}\text{C}$ .

### **Switching Characteristics**

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

PARAMETER	FROM (INPUT)	TO (OUTPUT)	V <sub>CC</sub> = 1.8 V ± 0.15 V		V <sub>CC</sub> = 2.5 V ± 0.2 V		V <sub>CC</sub> = 3.3 V ± 0.3 V		V <sub>CC</sub> = 5 V ± 0.5 V		UNIT
	(INFOT)	(001701)	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	
t <sub>pd</sub>	Α	Y	3.3	9.1	1.5	4.8	1.4	4.3	1	3.7	ns
t <sub>en</sub>	ŌĒ	Υ	4	9.9	1.9	5.6	1.2	4.7	1.2	3.8	ns
t <sub>dis</sub>	ŌĒ	Υ	1.5	11.6	1	5.8	1.4	4.6	1	3.4	ns

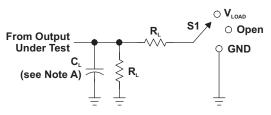
## **Operating Characteristics**

 $T_A = 25^{\circ}$ 

	PARAMETER	TEST CONDITIONS	V <sub>CC</sub> = 1.8 V TYP	V <sub>CC</sub> = 2.5 V TYP	V <sub>CC</sub> = 3.3 V TYP	V <sub>CC</sub> = 5 V TYP	UNIT		
Power dissipation		Outputs enabled	f 40 MH-	19	19	20	22	~F	
$C_{pd}$	capacitance	Outputs disabled	f = 10 MHz	2	2	2	3	pF	



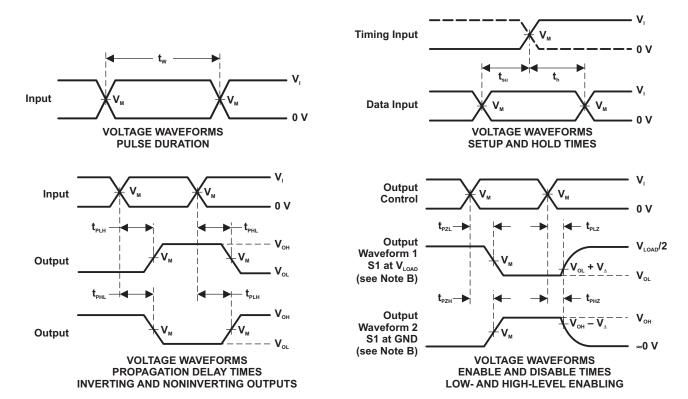
#### PARAMETER MEASUREMENT INFORMATION



TEST	S1
t <sub>PLH</sub> /t <sub>PHL</sub>	Open
$t_{PLZ}/t_{PZL}$	V <sub>LOAD</sub>
t <sub>PHZ</sub> /t <sub>PZH</sub>	GND

LOAD CIRCUIT

	INPUTS			W		-	W	
V <sub>cc</sub>	V,	t,/t,	V <sub>M</sub>	<b>V</b> <sub>LOAD</sub>	C <sub>L</sub>	R <sub>L</sub>	V <sub>A</sub>	
1.8 V ± 0.15 V	V <sub>cc</sub>	≤2 ns	V <sub>cc</sub> /2	2 × V <sub>cc</sub>	30 pF	<b>1 k</b> Ω	0.15 V	
2.5 V ± 0.2 V	V <sub>cc</sub>	≤2 ns	V <sub>cc</sub> /2	2 × V <sub>cc</sub>	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 <sub>cc</sub>	≤2.5 ns	V <sub>cc</sub> /2	2 × V <sub>cc</sub>	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<sub>o</sub> = 50  $\Omega$ .
- 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.  $t_{PZL}$  and  $t_{PZH}$  are the same as  $t_{en}$ .
- 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







#### **PACKAGING INFORMATION**

Orderable Device	Status <sup>(1)</sup>	Package Type	Package Drawing	Pins	Package Qty	Eco Plan <sup>(2)</sup>	Lead/Ball Finish	MSL Peak Temp <sup>(3)</sup>
74LVC2G125DCTRE4	ACTIVE	SM8	DCT	8	3000	Pb-Free (RoHS)	CU NIPDAU	Level-1-260C-UNLIM
74LVC2G125DCTRE6	ACTIVE	SM8	DCT	8	3000	Pb-Free (RoHS)	CU SNBI	Level-1-260C-UNLIM
74LVC2G125DCURE4	ACTIVE	US8	DCU	8	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
74LVC2G125DCURG4	ACTIVE	US8	DCU	8	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
74LVC2G125DCUTE4	ACTIVE	US8	DCU	8	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
74LVC2G125DCUTG4	ACTIVE	US8	DCU	8	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LVC2G125DCTR	ACTIVE	SM8	DCT	8	3000	Pb-Free (RoHS)	CU NIPDAU	Level-1-260C-UNLIM
SN74LVC2G125DCUR	ACTIVE	US8	DCU	8	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LVC2G125DCUT	ACTIVE	US8	DCU	8	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LVC2G125YZPR	ACTIVE	WCSP	YZP	8	3000	Green (RoHS & no Sb/Br)	SNAGCU	Level-1-260C-UNLIM

<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)

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

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Carrier tape design is defined largely by the component lentgh, width, and thickness.

Ao =	Dimension	designed	to	accommodate	the	component	width.			
Bo =	Dímension	designed	to	accommodate	the	component	length.			
Ko =	Dímension	designed	to	accommodate	the	component	thickness.			
W =	W = Overall width of the carrier tape.									
P =	Pitch betwe	en succes	ssiv	e cavity center	·s.					



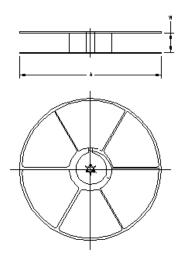
### TAPE AND REEL INFORMATION



# **PACKAGE MATERIALS INFORMATION**

19-May-2007

Device	Package	Pins	Site	Reel Diameter (mm)	Reel Width (mm)	A0 (mm)	B0 (mm)	K0 (mm)	P1 (mm)	W (mm)	Pin1 Quadrant
SN74LVC2G125DCUR	DCU	8	HNT	180	9	2.25	3.35	1.05	4	8	NONE
SN74LVC2G125DCUT	DCU	8	HNT	180	9	2.25	3.35	1.05	4	8	NONE
SN74LVC2G125YZPR	YZP	8	ASEK	180	8	1.1	2.1	0.56	4	8	Q1



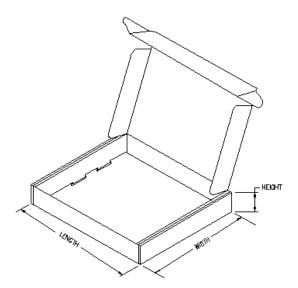
## TAPE AND REEL BOX INFORMATION

Device	Package	Pins	Site	Length (mm)	Width (mm)	Height (mm)
SN74LVC2G125DCUR	DCU	8	HNT	202.0	201.0	28.0
SN74LVC2G125DCUT	DCU	8	HNT	202.0	201.0	28.0
SN74LVC2G125YZPR	YZP	8	ASEK	220.0	220.0	34.0





19-May-2007



## 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.

# DCU (R-PDSO-G8)

# PLASTIC SMALL-OUTLINE PACKAGE (DIE DOWN)



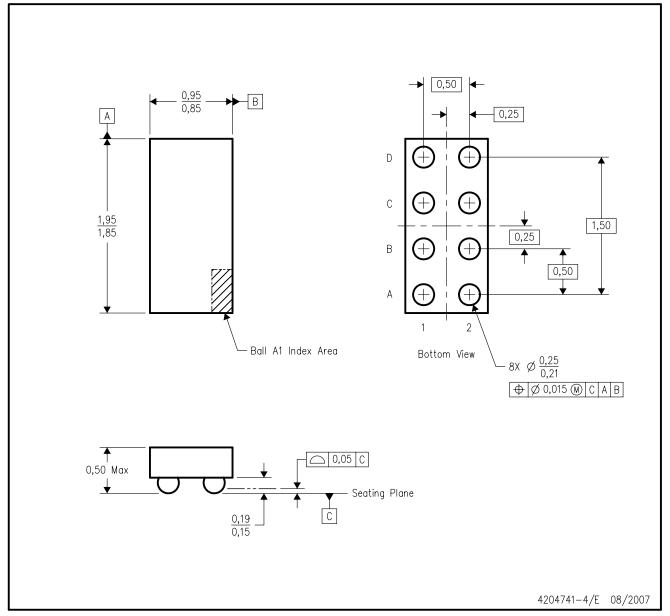
NOTES:

- 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.



# 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  $^{\text{TM}}$  package configuration.
- D. This package is lead-free. Refer to the 8 YEP package (drawing 4204725) for tin-lead (SnPb).

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