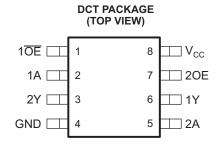
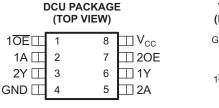


FEATURES

- Available in the Texas Instruments
 NanoFree[™] Package
- Supports 5-V V_{CC} Operation
- Inputs Accept Voltages to 5.5 V
- Max t_{nd} of 4.1 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 V, T_A = 25°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)
 - 200-V Machine Model (A115-A)
 - 1000-V Charged-Device Model (C101)







See mechanical drawings for dimensions.

DESCRIPTION/ORDERING INFORMATION

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

The SN74LVC2G241 is designed specifically to improve both the performance and density of 3-state memory-address drivers, clock drivers, and bus-oriented receivers and transmitters.

ORDERING INFORMATION

T _A	PACKAGE ⁽¹⁾		ORDERABLE PART NUMBER	TOP-SIDE MARKING(2)
	NanoFree [™] – WCSP (DSBGA) 0.23-mm Large Bump – YZP (Pb-free)	Reel of 3000	SN74LVC2G241YZPR	C2_
-40°C to 85°C	SSOP - DCT	Reel of 3000	SN74LVC2G241DCTR	C41
	VSSOP – DCU	Reel of 3000	SN74LVC2G241DCUR	C44
	V350P - DC0	Reel of 250	SN74LVC2G241DCUT	C41_

- Package drawings, standard packing quantities, thermal data, symbolization, and PCB design guidelines are available at www.ti.com/sc/package.
- (2) 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).



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.

NanoFree is a trademark of Texas Instruments.

SCES210M-APRIL 1999-REVISED FEBRUARY 2007



DESCRIPTION/ORDERING INFORMATION (CONTINUED)

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

The SN74LVC2G241 is organized as two 1-bit line drivers with separate output-enable $(1\overline{OE}, 2OE)$ inputs. When $1\overline{OE}$ is low and 2OE is high, the device passes data from the A inputs to the Y outputs. When $1\overline{OE}$ is high and 2OE is low, the outputs are in the high-impedance state.

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

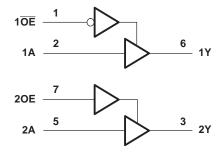
This device is fully specified for partial-power-down applications using I_{off} . The I_{off} circuitry disables the outputs, preventing damaging current backflow through the device when it is powered down.

FUNCTION TABLES

INP	UTS	OUTPUT
1 OE	1 A	1Y
L	Н	Н
L	L	L
Н	X	Z

INP	UTS	OUTPUT
20E	2A	2Y
Н	Н	Н
Н	L	L
L	Χ	Z

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)		-0.5	6.5	V	
Vo	Voltage range applied to any output in the hi	gh-impedance or power-off state (2)	-0.5	6.5	V	
Vo	Voltage range applied to any output in the hi	gh or low state ⁽²⁾⁽³⁾	-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	°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.



Recommended Operating Conditions⁽¹⁾

			MIN	MAX	UNIT	
\/	Complement	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	$0.65 \times V_{CC}$			
\	Liberta and import continues	V _{CC} = 2.3 V to 2.7 V	1.7		\ /	
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	$0.7 \times V_{CC}$			
		V _{CC} = 1.65 V to 1.95 V		$0.35 \times V_{CC}$		
\	Lave lavel in motor valtage	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	
	Outrout valta as	High or low state	0	V _{CC}	V	
V_{O}	Output voltage	3-state	0	5.5		
		V _{CC} = 1.65 V		-4		
		$V_{CC} = 2.3 \text{ V}$ evel output current $V_{CC} = 3 \text{ V}$		-8		
I _{OH}	High-level output current			-16	mA	
				-24		
		V _{CC} = 4.5 V		-32	1	
		V _{CC} = 1.65 V		4		
		V _{CC} = 2.3 V		8		
I_{OL}	Low-level output current	V 0.V		16	mA	
		V _{CC} = 3 V		24		
		V _{CC} = 4.5 V		32	1	
		V_{CC} = 1.8 V ± 0.15 V, 2.5 V ± 0.2 V		20		
Δt/Δν	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 _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.



SN74LVC2G241 DUAL BUFFER/DRIVER WITH 3-STATE OUTPUTS

Electrical Characteristics

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

PARAMETER	TEST CONDITIONS	V _{cc}	MIN TYP(1) MAX	UNIT
	$I_{OH} = -100 \mu A$	1.65 V to 5.5 V	V _{CC} – 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 _{OH}	$I_{OH} = -16 \text{ mA}$	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 μA	1.65 V to 5.5 V	0.1	
	I _{OL} = 4 mA	1.65 V	0.45	
V	I _{OL} = 8 mA	2.3 V	0.3	V
V _{OL}	I _{OL} = 16 mA	3 V	0.4	V
	I _{OL} = 24 mA	3 V	0.55	
	I _{OL} = 32 mA	4.5 V	0.55	
I _I A or control inputs	V _I = 5.5 V or GND	0 to 5.5 V	±5	μΑ
I _{off}	V_I or $V_O = 5.5 \text{ V}$	0	±10	μΑ
I _{OZ}	V _O = 0 to 5.5 V	3.6 V	10	μΑ
I _{cc}	$V_I = 5.5 \text{ V or GND}, \qquad I_O = 0$	1.65 V to 5.5 V	10	μΑ
ΔI_{CC}	One input at $V_{CC} - 0.6 \text{ V}$, Other inputs at V_{CC} or GND	3 V to 5.5 V	500	μΑ
C _i	$V_I = V_{CC}$ or GND	3.3 V	3.5	pF
Co	$V_O = V_{CC}$ or GND	3.3 V	6.5	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)

PARAMETER	FROM (INPUT)	TO (OUTPUT)	V _{CC} = ± 0.1		V _{CC} = 2 ± 0.2		V _{CC} = ± 0.3		V _{CC} = ± 0.5		UNIT
	(INFOT)	(OUTFUT)	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	
t _{pd}	Α	Y	3.3	8.8	1.5	4.8	1.4	4.3	1	3.7	ns
t _{en}	ŌĒ	Y	4	9.9	1.9	5.6	1.2	4.7	1.2	3.8	ns
t _{dis}	ŌĒ	Y	1.5	11.6	1	5.8	1.4	4.4	1	3.4	ns
t _{en}	OE	Y	3.2	8.8	1.5	4.7	1.6	4.1	1.1	3.3	ns
t _{dis}	OE	Υ	1.7	12.5	1	5.2	1	4.2	1	3.3	ns

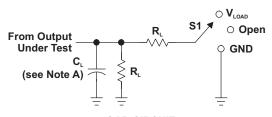
Operating Characteristics

 $T_A = 25^{\circ}C$

PARAMETER			TEST CONDITIONS	V _{CC} = 1.8 V TYP	V _{CC} = 2.5 V TYP	V _{CC} = 3.3 V TYP	V _{CC} = 5 V TYP	UNIT
	Power dissipation Output			19	19	20	22	
C _{pd}	capacitance per buffer/driver	Outputs disabled	f = 10 MHz	2	2	2	3	pF



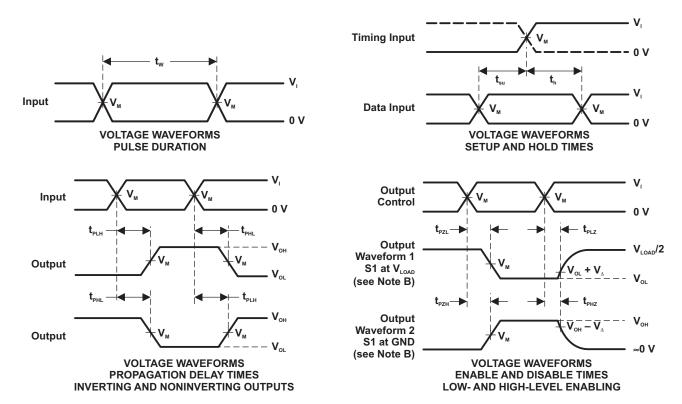
PARAMETER MEASUREMENT INFORMATION



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

LOAD CIRCUIT

	INF	PUTS	V	V		Б	V
V _{cc}	V,	t,/t,	V _M	V _{LOAD}	C _L	R _L	V _Δ
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_{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





11-Apr-2013

PACKAGING INFORMATION

Orderable Device	Status (1)	Package Type	Package Drawing	Pins	Package Qty	Eco Plan	Lead/Ball Finish	MSL Peak Temp	Op Temp (°C)	Top-Side Markings	Samples
74LVC2G241DCTRE4	ACTIVE	SM8	DCT	8	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	C41 Z	Samples
74LVC2G241DCTRG4	ACTIVE	SM8	DCT	8	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	C41 Z	Samples
74LVC2G241DCURE4	ACTIVE	US8	DCU	8	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	C41R	Samples
74LVC2G241DCURG4	ACTIVE	US8	DCU	8	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	C41R	Samples
74LVC2G241DCUTE4	ACTIVE	US8	DCU	8	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	C41R	Samples
74LVC2G241DCUTG4	ACTIVE	US8	DCU	8	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	C41R	Samples
SN74LVC2G241DCTR	ACTIVE	SM8	DCT	8	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	C41 Z	Samples
SN74LVC2G241DCUR	ACTIVE	US8	DCU	8	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	C41R	Samples
SN74LVC2G241DCUT	ACTIVE	US8	DCU	8	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	C41R	Samples
SN74LVC2G241YZPR	ACTIVE	DSBGA	YZP	8	3000	Green (RoHS & no Sb/Br)	SNAGCU	Level-1-260C-UNLIM	-40 to 85	(C2 ~ C27)	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.



PACKAGE OPTION ADDENDUM

11-Apr-2013

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

(4) 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





	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

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
SN74LVC2G241DCUR	US8	DCU	8	3000	180.0	8.4	2.25	3.35	1.05	4.0	8.0	Q3
SN74LVC2G241YZPR	DSBGA	YZP	8	3000	180.0	8.4	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)
SN74LVC2G241DCUR	US8	DCU	8	3000	202.0	201.0	28.0
SN74LVC2G241YZPR	DSBGA	YZP	8	3000	210.0	185.0	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)



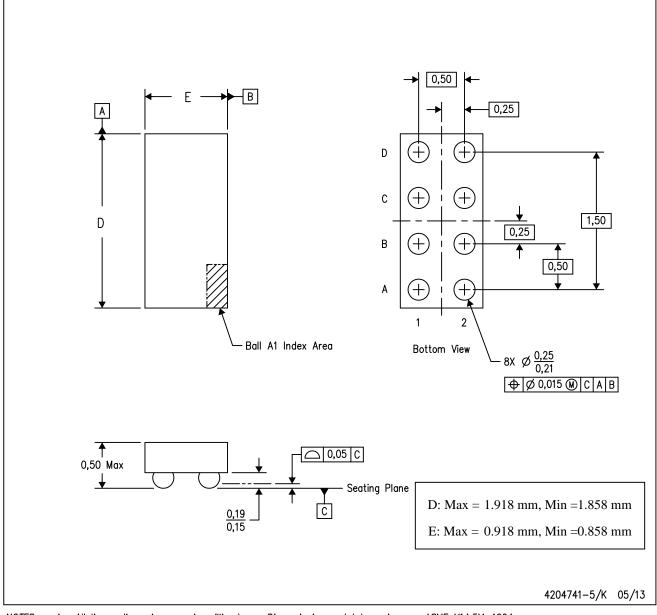
NOTES: A. All linear dimensions are in millimeters.

- 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.

NanoFree is a trademark of Texas Instruments.



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