

#### **FEATURES**

- Operates From 1.65 V to 3.6 V
- Max t<sub>pd</sub> of 3.1 ns at 3.3 V
- ±24-mA Output Drive at 3.3 V
- Latch-Up Performance Exceeds 250 mA Per JESD 17
- ESD Performance Tested Per JESD 22
- 2000-V Human-Body Model (A114-A)
  - 200-V Machine Model (A115-A)
  - 1000-V Charged-Device Model (C101)

### **DESCRIPTION/ORDERING INFORMATION**

This quadruple bus buffer gate is designed for 1.65-V to 3.6-V  $V_{CC}$  operation.

The SN74ALVC126 features independent line drivers with 3-state outputs. Each output is disabled when the associated output-enable (OE) input is low.

To ensure the high-impedance state during power up or power down, OE should be tied to GND through a pulldown resistor; the minimum value of the resistor is determined by the current-sourcing capability of the driver.

#### **ORDERING INFORMATION**

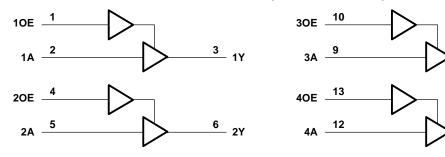
T <sub>A</sub>	PACK	AGE <sup>(1)</sup>	ORDERABLE PART NUMBER	TOP-SIDE MARKING		
	SOIC – D	Tube	SN74ALVC126D	ALVC126		
	50IC - D	Tape and reel	SN74ALVC126DR	ALVC120		
-40°C to 85°C	SOP – NS	Tape and reel	SN74ALVC126NSR	ALVC126		
	TSSOP – PW	Tape and reel	SN74ALVC126PWR	VA126		
	TVSOP – DGV Tape and reel		SN74ALVC126DGVR	VA126		

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

#### FUNCTION TABLE (each buffer)

INPUTS					
Α	Y				
Н	н				
L	L				
х	Z				
	A H L				

#### LOGIC DIAGRAM (POSITIVE LOGIC)



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.

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## SN74ALVC126 QUADRUPLE BUS BUFFER GATE WITH 3-STATE OUTPUTS

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		OR PW F P VIEW)	PACKAGE
10E [ 1A [ 1Y [ 20E [ 2A [ 2Y [ GND [	2 3 4	14 13 12 11 10 9 8	V <sub>CC</sub>   4OE   4A   4Y   3OE   3A   3Y

11

3Y

**4**Y

## SN74ALVC126 QUADRUPLE BUS BUFFER GATE WITH 3-STATE OUTPUTS

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#### 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	4.6	V
VI	Input voltage range <sup>(2)</sup>		-0.5	4.6	V
Vo	Output voltage range <sup>(2)(3)</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		±50	mA	
	Continuous current through V <sub>CC</sub> or GND			±100	mA
		D package		86	
	Declars thermal impedance $(4)$	DGV package		127	°C/W
$\theta_{JA}$	Package thermal impedance <sup>(4)</sup>	NS package		76	-C/W
		PW package		113	
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.

The input negative-voltage and output voltage ratings may be exceeded if the input and output current ratings are observed.

(3) This value is limited to 4.6 V maximum.

(2)

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

#### **RECOMMENDED OPERATING CONDITIONS**<sup>(1)</sup>

			MIN	MAX	UNIT
V <sub>CC</sub>	Supply voltage		1.65	3.6	V
		$V_{CC} = 1.65 \text{ V to } 1.95 \text{ V}$	$0.65  imes V_{CC}$		
VIH	High-level input voltage	$V_{CC}$ = 2.3 V to 2.7 V	1.7		V
		$V_{CC}$ = 2.7 V to 3.6 V	2		
		$V_{CC} = 1.65 \text{ V}$ to 1.95 V		$0.35  imes V_{CC}$	
VIL	Low-level input voltage	$V_{CC}$ = 2.3 V to 2.7 V		0.7	V
		$V_{CC} = 2.7 \text{ V to } 3.6 \text{ V}$		0.8	
VI	Input voltage		0	3.6	V
Vo	Output voltage		0	V <sub>CC</sub>	V
		V <sub>CC</sub> = 1.65 V		-4	
	Lich lovel output ourrent	V <sub>CC</sub> = 2.3 V		-12	~ ^
I <sub>OH</sub>	High-level output current	$V_{CC} = 2.7 V$		-12	mA
		$V_{CC} = 3 V$		-24	
		V <sub>CC</sub> = 1.65 V		4	
		V <sub>CC</sub> = 2.3 V		12	
I <sub>OL</sub>	Low-level output current	Low-level output current $V_{CC} = 2.7 V$		12	mA
	Low-level output current	$V_{CC} = 3 V$		24	
$\Delta t/\Delta v$	Input transition rise or fall rate			5	ns/V
T <sub>A</sub>	Operating free-air temperature		-40	85	°C

 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.



## SN74ALVC126 QUADRUPLE BUS BUFFER GATE WITH 3-STATE OUTPUTS

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#### **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> MA	X UNIT
		I <sub>OH</sub> = -100 μA	1.65 V to 3.6 V	V <sub>CC</sub> - 0.2	
		I <sub>OH</sub> = -4 mA	1.65 V	1.2	
		I <sub>OH</sub> = -6 mA	2.3 V	2	
V <sub>OH</sub>			2.3 V	1.7	V
		I <sub>OH</sub> = -12 mA	2.7 V	2.2	
	V <sub>OL</sub>		3 V	2.4	
		I <sub>OH</sub> = -24 mA	3 V	2	
		I <sub>OL</sub> = 100 μA	1.65 V to 3.6 V	C	.2
		I <sub>OL</sub> = 4 mA	1.65 V	0.4	45
V		I <sub>OL</sub> = 6 mA	2.3 V	C	.4 V
VOL		1 – 12 mA	2.3 V	C	.7
V <sub>OL</sub>	I <sub>OL</sub> = 12 mA	2.7 V	2.7 V 0.4		
		$I_{OL} = 24 \text{ mA}$	3 V	0.	55
I <sub>I</sub>		$V_1 = V_{CC}$ or GND	3.6 V	:	<u>⊦</u> 5 μΑ
I <sub>OZ</sub>		$V_{O} = V_{CC} \text{ or } GND$	3.6 V	±	I0 μA
I <sub>CC</sub>		$V_{I} = V_{CC} \text{ or } GND, \qquad I_{O} = 0$	3.6 V		I0 μA
$\Delta I_{CC}$		One input at $V_{CC}$ - 0.6 V, Other inputs at $V_{CC}$ or GND	3 V to 3.6 V	7	50 µA
C	Control inputs	$\lambda = \lambda = c C N D$	221/	3.5	۶Ę
Ci	Data inputs	$V_{I} = V_{CC} \text{ or } GND$	3.3 V	3.5	pF
Co	Outputs	$V_{O} = V_{CC}$ or GND	3.3 V	5.5	pF

(1) All typical values are at V<sub>CC</sub> = 3.3 V, T<sub>A</sub> = 25°C.

#### SWITCHING CHARACTERISTICS

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

PARAMETER	FROM (INPUT)	_		V <sub>CC</sub> = 1.8 V ± 0.15 V		$V_{CC}$ = 2.5 V ± 0.2 V		2.7 V	V <sub>CC</sub> = 3.3 V ± 0.3 V		UNIT
	(INFUT)	(001701)	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	
t <sub>pd</sub>	А	Y	1.3	5.6	1	3.4		3.4	1.1	3.1	ns
t <sub>en</sub>	OE	Y	1	5.9	1	3.8		3.8	1	3.3	ns
t <sub>dis</sub>	OE	Y	1.8	5.6	1	3.3		4.4	1	3.7	ns

### **OPERATING CHARACTERISTICS**

 $T_A = 25^{\circ}C$ 

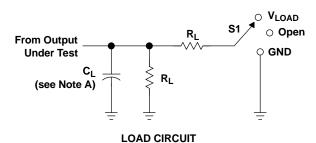
A								
	PARAMETER	TEST	V <sub>CC</sub> = 1.8 V	$V_{CC} = 2.5 V$	V <sub>CC</sub> = 3.3 V	UNIT		
	PARAMETER		CONDITIONS	TYP	TYP	TYP	UNIT	
Power dissipation		Outputs enabled	C = 0.f = 10.MHz	15	17	19	۶E	
Cpd	capacitance per gate	Outputs disabled	$C_{L} = 0, f = 10 MHz$	2	2	3	р⊢	

## SN74ALVC126 QUADRUPLE BUS BUFFER GATE WITH 3-STATE OUTPUTS



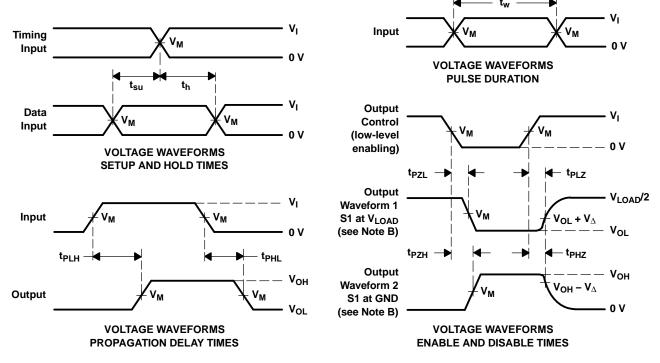
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#### PARAMETER MEASUREMENT INFORMATION



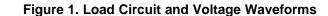
TEST	S1
t <sub>pd</sub>	Open
t <sub>PLZ</sub> /t <sub>PZL</sub>	V <sub>LOAD</sub>
t <sub>PHZ</sub> /t <sub>PZH</sub>	GND

V	$V_{CC} = \frac{INPUT}{V_{I} + t_{r}/t_{f}}$		V	v	<b>^</b>	Р	v
VCC			V <sub>M</sub>	V <sub>LOAD</sub>	C∟	RL	$V_{\Delta}$
1.8 V $\pm$ 0.15 V	V <sub>CC</sub>	≤2 ns	V <sub>CC</sub> /2	$2 \times V_{CC}$	30 pF	<b>1 k</b> Ω	0.15 V
2.5 V $\pm$ 0.2 V	V <sub>CC</sub>	≤2 ns	V <sub>CC</sub> /2	$2 \times V_{CC}$	30 pF	<b>500</b> Ω	0.15 V
2.7 V	2.7 V	≤2.5 ns	1.5 V	6 V	50 pF	<b>500</b> Ω	0.3 V
3.3 V $\pm$ 0.3 V	2.7 V	≤2.5 ns	1.5 V	6 V	50 pF	<b>500</b> 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 ≤ 10 MHz, Z<sub>O</sub> = 50 Ω.
- 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  $t_{PHL}$  are the same as  $t_{pd}$ .
- H. All parameters and waveforms are not applicable to all devices.





#### **PACKAGING INFORMATION**

Orderable part number	Status	Material type	Package   Pins	Package qty   Carrier	RoHS Lead finish/ (3) Ball material		MSL rating/ Peak reflow	Op temp (°C)	Part marking
	(1)	(2)			(3)	(4)	(5)		(6)
SN74ALVC126D	Active	Production	SOIC (D)   14	50   TUBE	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	ALVC126
SN74ALVC126D.B	Active	Production	SOIC (D)   14	50   TUBE	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	ALVC126
SN74ALVC126DGVR	Active	Production	TVSOP (DGV)   14	2000   LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	VA126
SN74ALVC126DGVR.B	Active	Production	TVSOP (DGV)   14	2000   LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	VA126
SN74ALVC126DGVRG4	Active	Production	TVSOP (DGV)   14	2000   LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	VA126
SN74ALVC126DGVRG4.B	Active	Production	TVSOP (DGV)   14	2000   LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	VA126
SN74ALVC126DR	Active	Production	SOIC (D)   14	2500   LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	ALVC126
SN74ALVC126DR.B	Active	Production	SOIC (D)   14	2500   LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	ALVC126
SN74ALVC126NSR	Active	Production	SOP (NS)   14	2000   LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	ALVC126
SN74ALVC126NSR.B	Active	Production	SOP (NS)   14	2000   LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	ALVC126
SN74ALVC126PWR	Active	Production	TSSOP (PW)   14	2000   LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	VA126
SN74ALVC126PWR.B	Active	Production	TSSOP (PW)   14	2000   LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	VA126
SN74ALVC126PWRE4	Active	Production	TSSOP (PW)   14	2000   LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	VA126

<sup>(1)</sup> **Status:** For more details on status, see our product life cycle.

<sup>(2)</sup> **Material type:** When designated, preproduction parts are prototypes/experimental devices, and are not yet approved or released for full production. Testing and final process, including without limitation quality assurance, reliability performance testing, and/or process qualification, may not yet be complete, and this item is subject to further changes or possible discontinuation. If available for ordering, purchases will be subject to an additional waiver at checkout, and are intended for early internal evaluation purposes only. These items are sold without warranties of any kind.

<sup>(3)</sup> RoHS values: Yes, No, RoHS Exempt. See the TI RoHS Statement for additional information and value definition.

<sup>(4)</sup> Lead finish/Ball material: Parts may have multiple material finish options. Finish options are separated by a vertical ruled line. Lead finish/Ball material values may wrap to two lines if the finish value exceeds the maximum column width.

<sup>(5)</sup> MSL rating/Peak reflow: The moisture sensitivity level ratings and peak solder (reflow) temperatures. In the event that a part has multiple moisture sensitivity ratings, only the lowest level per JEDEC standards is shown. Refer to the shipping label for the actual reflow temperature that will be used to mount the part to the printed circuit board.

<sup>(6)</sup> Part marking: There may be an additional marking, which relates to the logo, the lot trace code information, or the environmental category of the part.



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## PACKAGE OPTION ADDENDUM

17-Jun-2025

Multiple part markings will be inside parentheses. Only one part marking contained in parentheses and separated by a "~" will appear on a part. If a line is indented then it is a continuation of the previous line and the two combined represent the entire part marking for that device.

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STRUMENTS

#### 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
SN74ALVC126DGVR	TVSOP	DGV	14	2000	330.0	12.4	6.8	4.0	1.6	8.0	12.0	Q1
SN74ALVC126DGVRG4	TVSOP	DGV	14	2000	330.0	12.4	6.8	4.0	1.6	8.0	12.0	Q1
SN74ALVC126DR	SOIC	D	14	2500	330.0	16.4	6.5	9.0	2.1	8.0	16.0	Q1
SN74ALVC126NSR	SOP	NS	14	2000	330.0	16.4	8.1	10.4	2.5	12.0	16.0	Q1
SN74ALVC126PWR	TSSOP	PW	14	2000	330.0	12.4	6.9	5.6	1.6	8.0	12.0	Q1



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## PACKAGE MATERIALS INFORMATION

24-Jul-2025



\*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
SN74ALVC126DGVR	TVSOP	DGV	14	2000	353.0	353.0	32.0
SN74ALVC126DGVRG4	TVSOP	DGV	14	2000	353.0	353.0	32.0
SN74ALVC126DR	SOIC	D	14	2500	353.0	353.0	32.0
SN74ALVC126NSR	SOP	NS	14	2000	353.0	353.0	32.0
SN74ALVC126PWR	TSSOP	PW	14	2000	356.0	356.0	35.0

### TEXAS INSTRUMENTS

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24-Jul-2025

### TUBE



## - B - Alignment groove width

\*All dimensions are nominal

Device	Package Name	Package Type	Pins	SPQ	L (mm)	W (mm)	T (µm)	B (mm)
SN74ALVC126D	D	SOIC	14	50	506.6	8	3940	4.32
SN74ALVC126D.B	D	SOIC	14	50	506.6	8	3940	4.32

# **D0014A**



# **PACKAGE OUTLINE**

## SOIC - 1.75 mm max height

SMALL OUTLINE INTEGRATED CIRCUIT



NOTES:

- 1. All linear dimensions are in millimeters. Dimensions in parenthesis are for reference only. Dimensioning and tolerancing per ASME Y14.5M. 2. This drawing is subject to change without notice. 3. This dimension does not include mold flash, protrusions, or gate burrs. Mold flash, protrusions, or gate burrs shall not
- exceed 0.15 mm, per side.
- 4. This dimension does not include interlead flash. Interlead flash shall not exceed 0.43 mm, per side.
- 5. Reference JEDEC registration MS-012, variation AB.



# D0014A

# **EXAMPLE BOARD LAYOUT**

## SOIC - 1.75 mm max height

SMALL OUTLINE INTEGRATED CIRCUIT



NOTES: (continued)

6. Publication IPC-7351 may have alternate designs.

7. Solder mask tolerances between and around signal pads can vary based on board fabrication site.



## D0014A

# **EXAMPLE STENCIL DESIGN**

## SOIC - 1.75 mm max height

SMALL OUTLINE INTEGRATED CIRCUIT



NOTES: (continued)

- 8. Laser cutting apertures with trapezoidal walls and rounded corners may offer better paste release. IPC-7525 may have alternate design recommendations.
- 9. Board assembly site may have different recommendations for stencil design.



### MECHANICAL DATA

#### PLASTIC SMALL-OUTLINE PACKAGE

#### 0,51 0,35 ⊕0,25⊛ 1,27 8 14 0,15 NOM 5,60 8,20 5,00 7,40 $\bigcirc$ Gage Plane ₽ 0,25 7 1 1,05 0,55 0°-10° Δ 0,15 0,05 Seating Plane — 2,00 MAX 0,10PINS \*\* 14 16 20 24 DIM 10,50 10,50 12,90 15,30 A MAX A MIN 9,90 9,90 12,30 14,70 4040062/C 03/03

NOTES: A. All linear dimensions are in millimeters.

NS (R-PDSO-G\*\*)

**14-PINS SHOWN** 

- B. This drawing is subject to change without notice.
- C. Body dimensions do not include mold flash or protrusion, not to exceed 0,15.



## **MECHANICAL DATA**

PLASTIC SMALL-OUTLINE

MPDS006C - FEBRUARY 1996 - REVISED AUGUST 2000

#### DGV (R-PDSO-G\*\*)

24 PINS SHOWN



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, not to exceed 0,15 per side.
- D. Falls within JEDEC: 24/48 Pins MO-153

14/16/20/56 Pins – MO-194



# **PW0014A**



## **PACKAGE OUTLINE**

## TSSOP - 1.2 mm max height

SMALL OUTLINE PACKAGE



NOTES:

- 1. All linear dimensions are in millimeters. Any dimensions in parenthesis are for reference only. Dimensioning and tolerancing per ASME Y14.5M. 2. This drawing is subject to change without notice. 3. This dimension does not include mold flash, protrusions, or gate burrs. Mold flash, protrusions, or gate burrs shall not
- exceed 0.15 mm per side.
- 4. This dimension does not include interlead flash. Interlead flash shall not exceed 0.25 mm per side.
- 5. Reference JEDEC registration MO-153.



## PW0014A

# **EXAMPLE BOARD LAYOUT**

## TSSOP - 1.2 mm max height

SMALL OUTLINE PACKAGE



NOTES: (continued)

6. Publication IPC-7351 may have alternate designs.

7. Solder mask tolerances between and around signal pads can vary based on board fabrication site.



## PW0014A

# **EXAMPLE STENCIL DESIGN**

## TSSOP - 1.2 mm max height

SMALL OUTLINE PACKAGE



NOTES: (continued)

9. Board assembly site may have different recommendations for stencil design.



<sup>8.</sup> Laser cutting apertures with trapezoidal walls and rounded corners may offer better paste release. IPC-7525 may have alternate design recommendations.

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