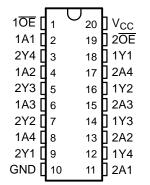
www.ti.com

SCES112F-JULY 1997-REVISED AUGUST 2004

FEATURES

- Operates From 1.65 V to 3.6 V
- Max t_{pd} of 2.8 ns at 3.3 V
- ±24-mA Output Drive at 3.3 V
- Bus Hold on Data Inputs Eliminates the Need for External Pullup/Pulldown Resistors
- Latch-Up Performance Exceeds 250 mA Per JESD 17
- ESD Protection Exceeds JESD 22
 - 2000-V Human-Body Model (A114-A)
 - 200-V Machine Model (A115-A)

DGV, DW, NS, OR PW PACKAGE (TOP VIEW)



DESCRIPTION/ORDERING INFORMATION

This octal buffer/line driver is designed for 1.65-V to 3.6-V V_{CC} operation.

The SN74ALVCH244 is organized as two 4-bit line drivers with separate output-enable (\overline{OE}) inputs. When \overline{OE} is low, the device passes data from the A inputs to the Y outputs. When \overline{OE} is high, the outputs are in the high-impedance state.

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

Active bus-hold circuitry holds unused or undriven inputs at a valid logic state. Use of pullup or pulldown resistors with the bus-hold circuitry is not recommended.

ORDERING INFORMATION

T _A	PACKAG	iE ⁽¹⁾	ORDERABLE PART NUMBER	TOP-SIDE MARKING	
	SOIC - DW	Tube	SN74ALVCH244DW	ALVCH244	
	SOIC - DW	Tape and reel	SN74ALVCH244DWR	ALVON244	
-40°C to 85°C	SOP - NS	Tape and reel	SN74ALVCH244NSR	ALVCH244	
-40 C to 65 C	TOOOD DW	Tube	SN74ALVCH244PW	V/D044	
	TSSOP - PW	Tape and reel	SN74ALVCH244PWR	VB244	
	TVSOP - DGV	Tape and reel	SN74ALVCH244DGVR	VB244	

⁽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)

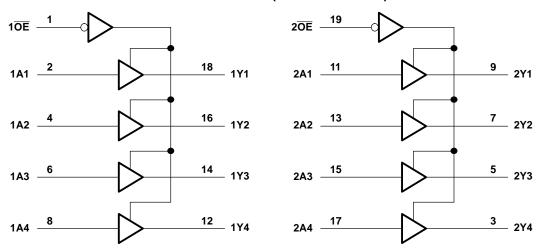
INP	JTS	OUTPUT				
ŌĒ	Α	Y				
L	Н	Н				
L	L	L				
Н	X	z				



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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	4.6	V	
V _I	Input voltage range (2)			-0.5	4.6	V	
Vo	Output voltage range ⁽²⁾⁽³⁾				V _{CC} + 0.5	V	
I _{IK}	Input clamp current	V _I < 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 GN	D			±100	mA	
		DGV package		-	92		
	Package thermal impedance ⁽⁴⁾	DW package		58		°C/M	
θ_{JA}	Fackage thermal impedance (*)	NS package			60	°C/W	
		PW package			83		
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⁾ This value is limited to 4.6 V maximum.

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



SN74ALVCH244 OCTAL BUFFER/DRIVER WITH 3-STATE OUTPUTS

RECOMMENDED OPERATING CONDITIONS⁽¹⁾

			MIN	MAX	UNIT
V_{CC}	Supply voltage		1.65	3.6	٧
		$V_{CC} = 1.65 \text{ V to } 1.95 \text{ V}$	$0.65 \times V_{CC}$		
V_{IH}	High-level input voltage	$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$	1.7		V
		$V_{CC} = 2.7 \text{ V to } 3.6 \text{ V}$	2		
		$V_{CC} = 1.65 \text{ V to } 1.95 \text{ V}$		$0.35 \times V_{CC}$	
V_{IL}	Low-level input voltage	$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$		0.7	V
		$V_{CC} = 2.7 \text{ V to } 3.6 \text{ V}$		0.8	
V _I	Input voltage		0	V _{CC}	V
Vo	Output voltage		0	V _{CC}	V
		V _{CC} = 1.65 V		-4	
	High level systems as	V _{CC} = 2.3 V		-12	A
I _{OH}	nigri-level output current	V _{CC} = 2.7 V		-12	mA
	Input voltage Output voltage High-level output current Low-level output current	V _{CC} = 3 V		-24	
		V _{CC} = 1.65 V		4	
	Low lovel output ourrent	V _{CC} = 2.3 V		12	m A
l _{OL}	Low-level output current	V _{CC} = 2.7 V		12	mA
		V _{CC} = 3 V		24	
Δt/Δν	Input transition rise or fall rate	•		5	ns/V
T _A	Operating free-air temperature		-40	85	°C

⁽¹⁾ All unused control 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 _{cc}	MIN TYP(1)	MAX	UNIT		
		$I_{OH} = -100 \mu A$	1.65 V to 3.6 V	V _{CC} - 0.2				
		$I_{OH} = -4 \text{ mA}$	1.65 V	1.2		Ì		
		I _{OH} = -6 mA	2.3 V	2		ı		
V _{OH}		2.3 V	1.7		V			
		$I_{OH} = -12 \text{ mA}$	2.7 V	2.2		ı		
			3 V	2.4		ı		
	I _{OH} = -100 μA		ı					
		$I_{OL} = 100 \mu A$	1.65 V to 3.6 V		0.2	1		
		I _{OL} = 4 mA	1.65 V		0.45	Ì		
$V_{OH} \begin{tabular}{ll} $I_{OH} = -12 \text{ mA} \\ \hline &I_{OH} = -24 \text{ mA} \\ \hline &I_{OL} = 100 \mu\text{A} \\ \hline &I_{OL} = 4 \text{ mA} \\ \hline &I_{OL} = 6 \text{ mA} \\ \hline &I_{OL} = 12 \text{ mA} \\ \hline &I_{OL} = 24 \text{ mA} \\ \hline &I_{OL} = 24 \text{ mA} \\ \hline &I_{OL} = 24 \text{ mA} \\ \hline &I_{OL} = 12 \text{ mA} \\$	$I_{OL} = 6 \text{ mA}$	2.3 V		0.4				
	1 40 1	2.3 V		0.7	V			
	$I_{OL} = 12 \text{ mA}$	2.7 V		0.4				
	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0.55	1					
I _I		$V_I = V_{CC}$ or GND	3.6 V		±5	μΑ		
		V _I = 0.58 V	1.65 V	(2)				
		V _I = 1.07 V	1.65 V	(2)		ı		
		V _I = 0.7 V	2.3 V	45				
I _{I(hold)}		V _I = 1.7 V	2.3 V	-45		μΑ		
		V _I = 0.8 V	3 V	75		ı		
		V _I = 2 V	3 V	-75		Ì		
		$V_1 = 0 \text{ to } 3.6 \text{ V}^{(3)}$	3.6 V		±500	ı		
loz		$V_O = V_{CC}$ or GND	3.6 V	,	±10	μΑ		
I _{CC}		$V_I = V_{CC}$ or GND, $I_O = 0$	3.6 V		10	μΑ		
		One input at V _{CC} - 0.6 V, Other inputs at V _{CC} or GND	3 V to 3.6 V		750	μΑ		
	Control inputs		227	4.5				
C _i		AI = ACC OL GIAD	3.3 V	6		pF		
Co	Outputs	$V_O = V_{CC}$ or GND	3.3 V	8		pF		

SWITCHING CHARACTERISTICS

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

PARAMETER	FROM (INPUT)	TO (OUTPUT)	V _{CC} = 1.8 V	V _{CC} = ± 0.2	2.5 V 2 V	V _{CC} =	2.7 V	V _{CC} = : ± 0.3	3.3 V 3 V	UNIT
	(INFOT)	(001701)	TYP	MIN	MAX	MIN	MAX	MIN	MAX	
t _{pd}	Α	Υ	(1)	1	3.1		3.1	1.1	2.8	ns
t _{en}	ŌĒ	Y	(1)	1.5	5.4		5.3	1.5	4.5	ns
t _{dis}	ŌĒ	Y	(1)	1	4.1		4.4	1.7	4.2	ns

⁽¹⁾ This information was not available at the time of publication.

All typical values are at V_{CC} = 3.3 V, T_A = 25°C. This information was not available at the time of publication.

This is the bus-hold maximum dynamic current. It is the minimum overdrive current required to switch the input from one state to another.







OPERATING CHARACTERISTICS

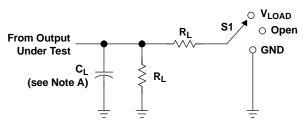
 $T_A = 25^{\circ}C$

	PARAMETER	TEST CONDITIONS	V _{CC} = 1.8 V TYP	V _{CC} = 2.5 V TYP	V _{CC} = 3.3 V TYP	UNIT		
Power dissipation capacitance		Outputs enabled	C ₁ = 0. f = 10 MHz	(1)	22	28	pF	
Cpd	per buffer/driver	Outputs disabled	$C_L = 0$, $I = 10$ MHZ	(1)	1.5	4	ρг	

⁽¹⁾ This information was not available at the time of publication.



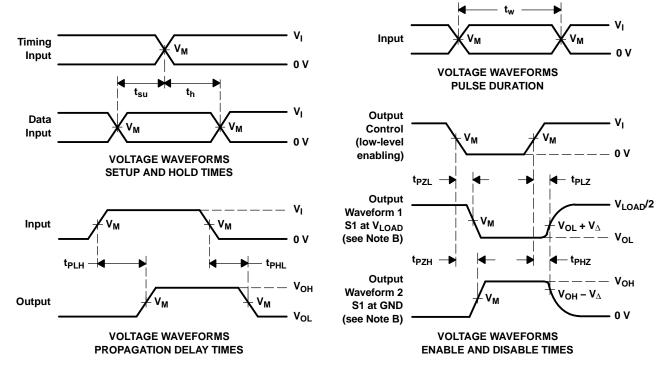
PARAMETER MEASUREMENT INFORMATION



TEST	S 1
t _{pd}	Open
t _{PLZ} /t _{PZL}	V _{LOAD}
t _{PHZ} /t _{PZH}	GND

LOAD CIRCUIT

V	IN	PUT	V	, , , , , , , , , , , , , , , , , , ,	•	В	, I
V _{CC}	VI	t _r /t _f	V _M	V _{LOAD}	CL	R _L	$oldsymbol{V}_\Delta$
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 \pm 0.2 V	V _{CC}	≤2 ns	V _{CC} /2	2×V _{CC}	30 pF	500 Ω	0.15 V
2.7 V	2.7 V	≤2.5 ns	1.5 V	6 V	50 pF	500 Ω	0.3 V
3.3 V \pm 0.3 V	2.7 V	≤2.5 ns	1.5 V	6 V	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_{Ω} = 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.

Figure 1. Load Circuit and Voltage Waveforms





10-Jun-2014

PACKAGING INFORMATION

Orderable Device	Status	Package Type	_		Package	Eco Plan	Lead/Ball Finish	MSL Peak Temp	Op Temp (°C)	Device Marking	Samples
	(1)		Drawing		Qty	(2)	(6)	(3)		(4/5)	
SN74ALVCH244DGVR	ACTIVE	TVSOP	DGV	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	VB244	Samples
SN74ALVCH244DW	ACTIVE	SOIC	DW	20	25	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	ALVCH244	Samples
SN74ALVCH244DWR	ACTIVE	SOIC	DW	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	ALVCH244	Samples
SN74ALVCH244PW	ACTIVE	TSSOP	PW	20	70	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	VB244	Samples
SN74ALVCH244PWLE	OBSOLETE	TSSOP	PW	20		TBD	Call TI	Call TI	-40 to 85		
SN74ALVCH244PWR	ACTIVE	TSSOP	PW	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	VB244	Samples
SN74ALVCH244PWRE4	ACTIVE	TSSOP	PW	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	VB244	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.

(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.

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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.

⁽⁴⁾ There may be additional marking, which relates to the logo, the lot trace code information, or the environmental category on the device.



PACKAGE OPTION ADDENDUM

10-Jun-2014

(5) Multiple Device Markings will be inside parentheses. Only one Device 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 Device Marking for that device.

(6) Lead/Ball Finish - Orderable Devices may have multiple material finish options. Finish options are separated by a vertical ruled line. Lead/Ball Finish values may wrap to two lines if the finish value exceeds the maximum column width.

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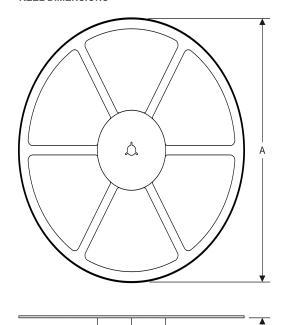
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PACKAGE MATERIALS INFORMATION

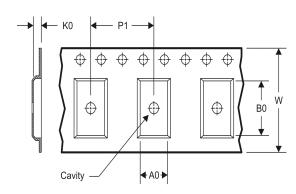
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TAPE AND REEL INFORMATION

REEL DIMENSIONS



TAPE DIMENSIONS



A0	Dimension designed to accommodate the component width
В0	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

TAPE AND REEL INFORMATION

*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
SN74ALVCH244DGVR	TVSOP	DGV	20	2000	330.0	12.4	6.9	5.6	1.6	8.0	12.0	Q1
SN74ALVCH244DWR	SOIC	DW	20	2000	330.0	24.4	10.8	13.0	2.7	12.0	24.0	Q1
SN74ALVCH244PWR	TSSOP	PW	20	2000	330.0	16.4	6.95	7.1	1.6	8.0	16.0	Q1

PACKAGE MATERIALS INFORMATION

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*All dimensions are nominal

A Marine Policies and Treatment							
Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
SN74ALVCH244DGVR	TVSOP	DGV	20	2000	367.0	367.0	35.0
SN74ALVCH244DWR	SOIC	DW	20	2000	367.0	367.0	45.0
SN74ALVCH244PWR	TSSOP	PW	20	2000	367.0	367.0	38.0

DGV (R-PDSO-G**)

24 PINS SHOWN

PLASTIC SMALL-OUTLINE



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



SOIC



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-013.



SOIC



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.



SOIC



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.



PW (R-PDSO-G20)

PLASTIC SMALL OUTLINE



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.
- Body length does not include mold flash, protrusions, or gate burrs. Mold flash, protrusions, or gate burrs shall not exceed 0,15 each side.
- Body width does not include interlead flash. Interlead flash shall not exceed 0,25 each side.
- E. Falls within JEDEC MO-153



PW (R-PDSO-G20)

PLASTIC SMALL OUTLINE



NOTES:

- All linear dimensions are in millimeters.
- B. This drawing is subject to change without notice.
 C. Publication IPC-7351 is recommended for alternate design.
- 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.



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