

# SN54ALS244C, SN54AS244A, SN74ALS244C, SN74AS244A OCTAL BUFFERS AND LINE DRIVERS WITH 3-STATE OUTPUTS

SDAS142C – JULY 1987 – REVISED AUGUST 1995

- 3-State Outputs Drive Bus Lines or Buffer Memory Address Registers
- pnp Inputs Reduce dc Loading
- Package Options Include Plastic Small-Outline (DW) Packages, Ceramic Chip Carriers (FK), and Standard Plastic (N) and Ceramic (J) 300-mil DIPs

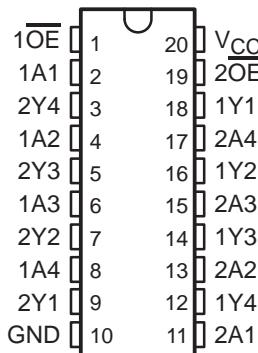
## description

These octal buffers and line drivers are designed specifically to improve the performance and density of 3-state memory address drivers, clock drivers, and bus-oriented receivers and transmitters. With the 'ALS240A, 'ALS241C, 'AS240A, and 'AS241A, these devices provide the choice of selected combinations of inverting outputs, symmetrical active-low output-enable ( $\overline{OE}$ ) inputs, and complementary OE and  $\overline{OE}$  inputs.

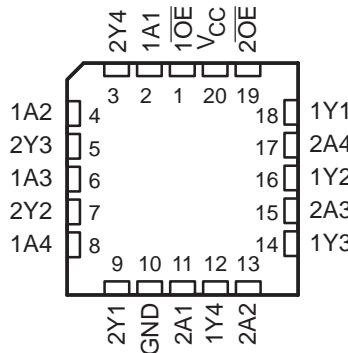
The -1 version of SN74ALS244C is identical to the standard version, except that the recommended maximum  $I_{OL}$  for the -1 version is 48 mA. There is no -1 version of the SN54ALS244C.

The SN54ALS244C and SN54AS244A are characterized for operation over the full military temperature range of  $-55^{\circ}\text{C}$  to  $125^{\circ}\text{C}$ . The SN74ALS244C and SN74AS244A are characterized for operation from  $0^{\circ}\text{C}$  to  $70^{\circ}\text{C}$ .

SN54ALS244C, SN54AS244A . . . J PACKAGE  
SN74ALS244C, SN74AS244A . . . DW OR N PACKAGE  
(TOP VIEW)



SN54ALS244C, SN54AS244A . . . FK PACKAGE  
(TOP VIEW)



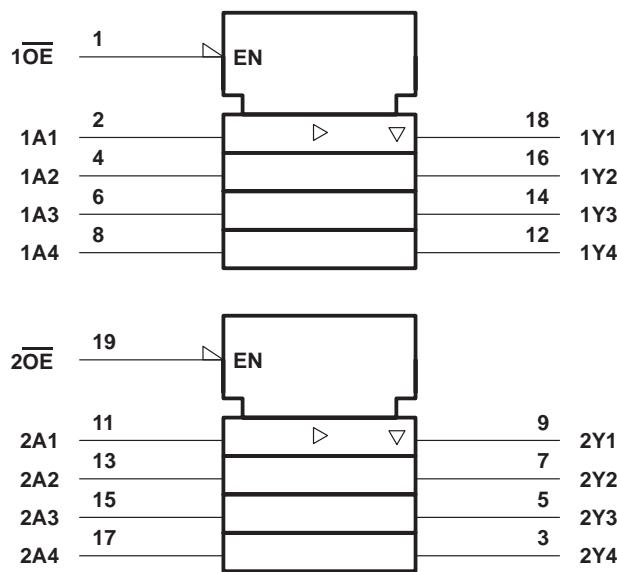
FUNCTION TABLE  
(each buffer)

INPUTS		OUTPUT Y
$\overline{OE}$	A	
L	H	H
L	L	L
H	X	Z

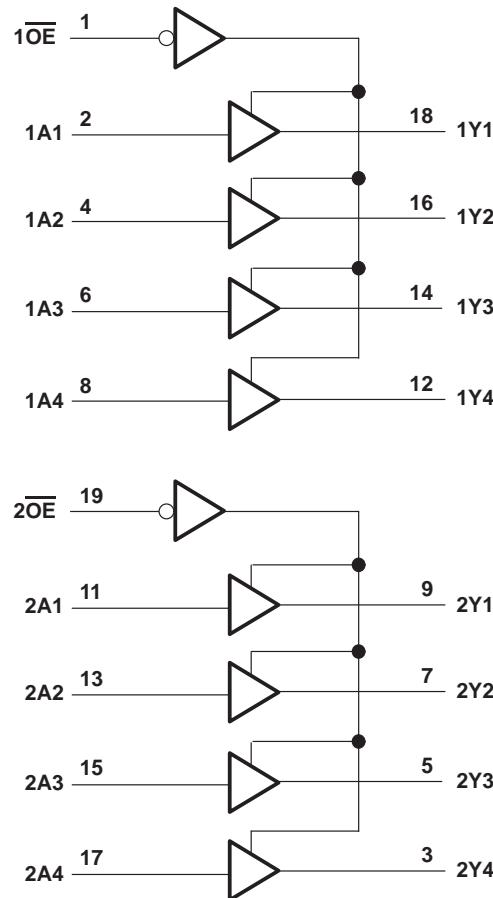
# **SN54ALS244C, SN54AS244A, SN74ALS244C, SN74AS244A OCTAL BUFFERS AND LINE DRIVERS WITH 3-STATE OUTPUTS**

SDAS142C – JULY 1987 – REVISED AUGUST 1995

## logic symbol†



## logic diagram (positive logic)



<sup>†</sup>This symbol is in accordance with ANSI/IEEE Std 91-1984 and IEC Publication 617-12.

**absolute maximum ratings over operating free-air temperature range (unless otherwise noted)‡**

‡ 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.

**SN54ALS244C, SN54AS244A, SN74ALS244C, SN74AS244A**  
**OCTAL BUFFERS AND LINE DRIVERS**  
**WITH 3-STATE OUTPUTS**

SDAS142C – JULY 1987 – REVISED AUGUST 1995

**recommended operating conditions**

		SN54ALS244C			SN74ALS244C			UNIT
		MIN	NOM	MAX	MIN	NOM	MAX	
V <sub>CC</sub>	Supply voltage	4.5	5	5.5	4.5	5	5.5	V
V <sub>IH</sub>	High-level input voltage	2			2			V
V <sub>IL</sub>	Low-level input voltage		0.8†			0.8		V
			0.7‡					
I <sub>OH</sub>	High-level output current			-12			-15	mA
I <sub>OL</sub>	Low-level output current			12		24		mA
						48§		
T <sub>A</sub>	Operating free-air temperature	-55		125	0		70	°C

† Applies over temperature range -55°C to 70°C

‡ Applies over temperature range 70°C to 125°C

§ Applies only to the -1 version and only if V<sub>CC</sub> is between 4.75 V and 5.25 V

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

PARAMETER	TEST CONDITIONS	SN54ALS244C			SN74ALS244C			UNIT
		MIN	TYP†	MAX	MIN	TYP†	MAX	
V <sub>IK</sub>	V <sub>CC</sub> = 4.5 V, I <sub>I</sub> = -18 mA			-1.5			-1.5	V
V <sub>OH</sub>	V <sub>CC</sub> = 4.5 V to 5.5 V	I <sub>OH</sub> = -0.4 mA	V <sub>CC</sub> - 2		V <sub>CC</sub> - 2			V
		I <sub>OH</sub> = -3 mA	2.4	3.2	2.4	3.2		
	V <sub>CC</sub> = 4.5 V	I <sub>OH</sub> = -12 mA	2				2	
		I <sub>OH</sub> = -15 mA						
V <sub>OL</sub>	V <sub>CC</sub> = 4.5 V	I <sub>OL</sub> = 12 mA	0.25	0.4	0.25	0.4		V
		I <sub>OL</sub> = 24 mA			0.35	0.5		
		I <sub>OL</sub> = 48 mA (-1 version)			0.35	0.5		
I <sub>OZH</sub>	V <sub>CC</sub> = 5.5 V, V <sub>O</sub> = 2.7 V			20			20	µA
I <sub>OZL</sub>	V <sub>CC</sub> = 5.5 V, V <sub>O</sub> = 0.4 V			-20			-20	µA
I <sub>I</sub>	V <sub>CC</sub> = 5.5 V, V <sub>I</sub> = 7 V			0.1			0.1	mA
I <sub>IH</sub>	V <sub>CC</sub> = 5.5 V, V <sub>I</sub> = 2.7 V			20			20	µA
I <sub>IL</sub>	V <sub>CC</sub> = 5.5 V, V <sub>I</sub> = 0.4 V			-0.1			-0.1	mA
I <sub>O#</sub>	V <sub>CC</sub> = 5.5 V, V <sub>O</sub> = 2.25 V	-20	-112	-30	-112			mA
I <sub>CC</sub>	V <sub>CC</sub> = 5.5 V	Outputs high	9	18	9	17		mA
		Outputs low	15	25	15	24		
		Outputs disabled	17	29	17	27		

† All typical values are at V<sub>CC</sub> = 5 V, T<sub>A</sub> = 25°C.

# The output conditions have been chosen to produce a current that closely approximates one half of the true short-circuit output current, I<sub>OS</sub>.

# **SN54ALS244C, SN54AS244A, SN74ALS244C, SN74AS244A OCTAL BUFFERS AND LINE DRIVERS WITH 3-STATE OUTPUTS**

SDAS142C – JULY 1987 – REVISED AUGUST 1995

**switching characteristics (see Figure 1)**

PARAMETER	FROM (INPUT)	TO (OUTPUT)	$V_{CC} = 4.5\text{ V to }5.5\text{ V}$ , $C_L = 50\text{ pF}$ , $R1 = 500\text{ }\Omega$ , $R2 = 500\text{ }\Omega$ , $T_A = \text{MIN to MAX}^{\dagger}$				UNIT	
			SN54ALS244C					
			MIN	MAX	MIN	MAX		
			1	16	2	10		
$t_{PLH}$	A	Y	3	12	3	10	ns	
$t_{PHL}$			1	26	3	20		
$t_{PZH}$	$\overline{OE}$	Y	1	24	3	20	ns	
$t_{PZL}$			2	10	2	10		
$t_{PHZ}$	$\overline{OE}$	Y	1	26	1	13	ns	
$t_{PLZ}$								

<sup>†</sup> For conditions shown as MIN or MAX, use the appropriate value specified under recommended operating conditions.

**absolute maximum ratings over operating free-air temperature range (unless otherwise noted)‡**

‡ 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.

#### **recommended operating conditions**

		SN54AS244A			SN74AS244A			UNIT
		MIN	NOM	MAX	MIN	NOM	MAX	
V <sub>CC</sub>	Supply voltage	4.5	5	5.5	4.5	5	5.5	V
V <sub>IH</sub>	High-level input voltage		2			2		V
V <sub>IL</sub>	Low-level input voltage			0.8			0.8	V
I <sub>OH</sub>	High-level output current			-12			-15	mA
I <sub>OL</sub>	Low-level output current			48			64	mA
T <sub>A</sub>	Operating free-air temperature	-55		125	0		70	°C

**SN54ALS244C, SN54AS244A, SN74ALS244C, SN74AS244A**  
**OCTAL BUFFERS AND LINE DRIVERS**  
**WITH 3-STATE OUTPUTS**

SDAS142C – JULY 1987 – REVISED AUGUST 1995

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

PARAMETER	TEST CONDITIONS	SN54AS244A			SN74AS244A			UNIT
		MIN	TYP†	MAX	MIN	TYP†	MAX	
V <sub>IK</sub>	V <sub>CC</sub> = 4.5 V, I <sub>I</sub> = -18 mA			-1.2			-1.2	V
V <sub>OH</sub>	V <sub>CC</sub> = 4.5 V to 5.5 V, I <sub>OH</sub> = -2 mA	V <sub>CC</sub> - 2			V <sub>CC</sub> - 2			V
	V <sub>CC</sub> = 4.5 V	I <sub>OH</sub> = -3 mA	2.4	3.4	2.4	3.4		
		I <sub>OH</sub> = -12 mA	2.4					
		I <sub>OH</sub> = -15 mA			2.4			
V <sub>OL</sub>	V <sub>CC</sub> = 4.5 V	I <sub>OL</sub> = 48 mA		0.55				V
		I <sub>OL</sub> = 64 mA					0.55	
I <sub>OZH</sub>	V <sub>CC</sub> = 5.5 V, V <sub>O</sub> = 2.7 V			50			50	µA
I <sub>OZL</sub>	V <sub>CC</sub> = 5.5 V, V <sub>O</sub> = 0.4 V			-50			-50	µA
I <sub>I</sub>	V <sub>CC</sub> = 5.5 V, V <sub>I</sub> = 7 V			0.1			0.1	mA
I <sub>IH</sub>	V <sub>CC</sub> = 5.5 V, V <sub>I</sub> = 2.7 V			20			20	µA
I <sub>IL</sub>	V <sub>CC</sub> = 5.5 V, A	V <sub>I</sub> = 0.4 V		-0.5			-0.5	mA
				-1			-1	
I <sub>O‡</sub>	V <sub>CC</sub> = 5.5 V, V <sub>O</sub> = 2.25 V		-50	-150	-50	-150		mA
I <sub>CC</sub>	V <sub>CC</sub> = 5.5 V	Outputs high	22	34	22	34		mA
		Outputs low	60	90	60	90		
		Outputs disabled	34	54	34	54		

† All typical values are at V<sub>CC</sub> = 5 V, T<sub>A</sub> = 25°C.

‡ The output conditions have been chosen to produce a current that closely approximates one half of the true short-circuit output current, I<sub>OS</sub>.

**switching characteristics (see Figure 1)**

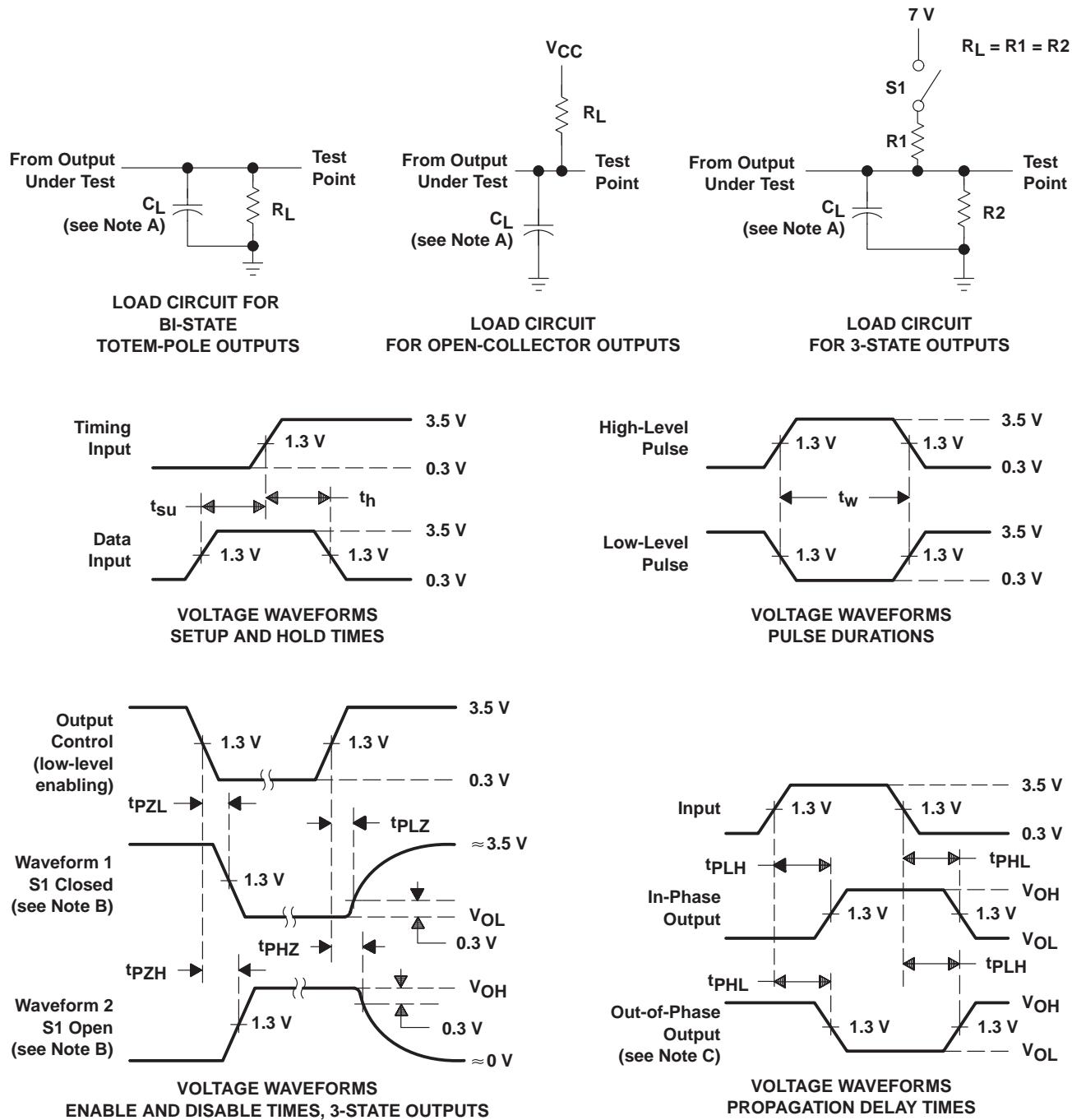
PARAMETER	FROM (INPUT)	TO (OUTPUT)	V <sub>CC</sub> = 4.5 V to 5.5 V, C <sub>L</sub> = 50 pF, R <sub>1</sub> = 500 Ω, R <sub>2</sub> = 500 Ω, T <sub>A</sub> = MIN to MAX§				UNIT	
			SN54AS244A		SN74AS244A			
			MIN	MAX	MIN	MAX		
t <sub>PLH</sub>	A	Y	2	9	2	6.2	ns	
t <sub>PHL</sub>			1	7	1	6.2		
t <sub>PZH</sub>	OE	Y	1	10	1	9	ns	
t <sub>PZL</sub>			2	8	2	7.5		
t <sub>PHZ</sub>	OE	Y	1	6.5	1	6	ns	
t <sub>PLZ</sub>			1	10.5	1	9		

§ For conditions shown as MIN or MAX, use the appropriate value specified under recommended operating conditions.

**SN54ALS244C, SN54AS244A, SN74ALS244C, SN74AS244A  
OCTAL BUFFERS AND LINE DRIVERS  
WITH 3-STATE OUTPUTS**

SDAS142C – JULY 1987 – REVISED AUGUST 1995

**PARAMETER MEASUREMENT INFORMATION  
SERIES 54ALS/74ALS AND 54AS/74AS DEVICES**



- NOTES:
- $C_L$  includes probe and jig capacitance.
  - 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.
  - When measuring propagation delay items of 3-state outputs, switch S1 is open.
  - All input pulses have the following characteristics:  $PRR \leq 1 \text{ MHz}$ ,  $t_r = t_f = 2 \text{ ns}$ , duty cycle = 50%.
  - The outputs are measured one at a time with one transition per measurement.

**Figure 1. Load Circuits and Voltage Waveforms**

### **IMPORTANT NOTICE**

Texas Instruments and its subsidiaries (TI) reserve the right to make changes to their products or to discontinue any product or service without notice, and advise customers to obtain the latest version of relevant information to verify, before placing orders, that information being relied on is current and complete. All products are sold subject to the terms and conditions of sale supplied at the time of order acknowledgement, including those pertaining to warranty, patent infringement, and limitation of liability.

TI warrants performance of its semiconductor products to the specifications applicable at the time of sale in accordance with TI's standard warranty. Testing and other quality control techniques are utilized to the extent TI deems necessary to support this warranty. Specific testing of all parameters of each device is not necessarily performed, except those mandated by government requirements.

CERTAIN APPLICATIONS USING SEMICONDUCTOR PRODUCTS MAY INVOLVE POTENTIAL RISKS OF DEATH, PERSONAL INJURY, OR SEVERE PROPERTY OR ENVIRONMENTAL DAMAGE ("CRITICAL APPLICATIONS"). TI SEMICONDUCTOR PRODUCTS ARE NOT DESIGNED, AUTHORIZED, OR WARRANTED TO BE SUITABLE FOR USE IN LIFE-SUPPORT DEVICES OR SYSTEMS OR OTHER CRITICAL APPLICATIONS. INCLUSION OF TI PRODUCTS IN SUCH APPLICATIONS IS UNDERSTOOD TO BE FULLY AT THE CUSTOMER'S RISK.

In order to minimize risks associated with the customer's applications, adequate design and operating safeguards must be provided by the customer to minimize inherent or procedural hazards.

TI assumes no liability for applications assistance or customer product design. TI does not warrant or represent that any license, either express or implied, is granted under any patent right, copyright, mask work right, or other intellectual property right of TI covering or relating to any combination, machine, or process in which such semiconductor products or services might be or are used. TI's publication of information regarding any third party's products or services does not constitute TI's approval, warranty or endorsement thereof.



**PRODUCT FOLDER** | PRODUCT INFO: [FEATURES](#) | [DESCRIPTION](#) | [DATASHEETS](#) | [PRICING/AVAILABILITY/PKG](#) |  
[APPLICATION NOTES](#) | [RELATED DOCUMENTS](#) | [MODELS](#)

PRODUCT SUPPORT: [TRAINING](#)

## SN74AS244A, Octal Buffers/Drivers With 3-State Outputs

DEVICE STATUS: ACTIVE

PARAMETER NAME	SN54AS244A	SN74AS244A
Voltage Nodes (V)	5	5
Vcc range (V)	4.5 to 5.5	4.5 to 5.5
Input Level	TTL	TTL
Output Level	TTL	TTL
Output Drive (mA)		-15/64
tpd max (ns)		6.2
Static Current		62

### FEATURES

[▲ Back to Top](#)

- 3-State Outputs Drive Bus Lines or Buffer Memory Address Registers
- pnp Inputs Reduce dc Loading
- Package Options Include Plastic Small-Outline (DW) Packages, Ceramic Chip Carriers (FK), and Standard Plastic (N) and Ceramic (J) 300-mil DIPs

### DESCRIPTION

[▲ Back to Top](#)

These octal buffers and line drivers are designed specifically to improve the performance and density of 3-state memory address drivers, clock drivers, and bus-oriented receivers and transmitters. With the 'ALS240A, 'ALS241C, 'AS240A, and 'AS241A, these devices provide the choice of selected combinations of inverting outputs, symmetrical active-low output-enable ( $\overline{OE}$ ) inputs, and complementary OE and  $\overline{OE}$  inputs.

The -1 version of SN74ALS244C is identical to the standard version, except that the recommended maximum  $I_{OL}$  for the -1 version is 48 mA. There is no -1 version of the SN54ALS244C.

The SN54ALS244C and SN54AS244A are characterized for operation over the full military temperature range of -55°C to 125°C. The SN74ALS244C and SN74AS244A are characterized for operation from 0°C to 70°C.

### TECHNICAL DOCUMENTS

[▲ Back to Top](#)

To view the following documents, [Acrobat Reader 4.0](#) is required.

To download a document to your hard drive, right-click on the link and choose 'Save'.

### DATASHEET

[▲ Back to Top](#)

## APPLICATION NOTES

 [Back to Top](#)

[View Application Notes for Digital Logic](#)

- [Advanced Schottky \(ALS and AS\) Logic Families](#) (SDAA010 - Updated: 08/01/1995)
  - [Advanced Schottky Load Management](#) (SDYA016 - Updated: 02/01/1997)
  - [Designing With Logic \(Rev. C\)](#) (SDYA009C - Updated: 06/01/1997)
  - [Evaluation of Nickel/Palladium/Gold-Finished Surface-Mount Integrated Circuits](#) (SZZA026 - Updated: 06/20/2001)
  - [Input and Output Characteristics of Digital Integrated Circuits](#) (SDYA010 - Updated: 10/01/1996)
  - [Live Insertion](#) (SDYA012 - Updated: 10/01/1996)
  - [Timing Differences of 10-pF Versus 50pF Loading](#) (SCEA004 - Updated: 11/01/1996)

## **RELATED DOCUMENTS**

 [Back to Top](#)

[View Related Documentation for Digital Logic](#)

- [Logic Reference Guide](#) (SCYB004, 1032 KB - Updated: 10/23/2001)
  - [Logic Selection Guide Second Half 2002 \(Rev. R\)](#) (SDYU001R, 4274 KB - Updated: 07/19/2002)
  - [Military Semiconductors Selection Guide 2002 \(Rev. B\)](#) (SGYCO03B, 1648 KB - Updated: 04/22/2002)

## **PRICING/AVAILABILITY/PKG**

## DEVICE INFORMATION

<u>ORDERABLE DEVICE</u>	<u>STATUS</u>	<u>PACKAGE TYPE PINS</u>	<u>TEMP (°C)</u>	<u>PRODUCT CONTENT</u>	<u>BUDGETARY PRICING QTY   SUS</u>	<u>STD PACK QTY</u>
SN74AS244ADW	ACTIVE	SOP (DW)   20	0 TO 70	<a href="#">View Contents</a>	1KU   1.29	25
SN74AS244ADWR	ACTIVE	SOP (DW)   20	0 TO 70	<a href="#">View Contents</a>	1KU   1.29	2000
SN74AS244AN	ACTIVE	PDIP (N)   20	0 TO 70	<a href="#">View Contents</a>	1KU   1.19	20
SN74AS244ANSR	ACTIVE	SOP (NS)   20		<a href="#">View Contents</a>	1KU   1.19	2000

 [Back to Top](#)

**TI INVENTORY STATUS  
AS OF 3:00 PM GMT, 26 Sep 2002**

<u>IN STOCK</u>	<u>IN PROGRESS</u> QTY DATE	<u>LEAD TIME</u>
75	3950   19 Sep	5 WKS
	>10k   11 Oct	
<u>N/A*</u>	4555   23 Sep	5 WKS
	1445   04 Oct	
	>10k   11 Oct	
<u>N/A*</u>	4714   26 Sep	5 WKS
	580   03 Oct	
	>10k   14 Oct	
<u>N/A*</u>	>10k   14 Oct	5 WKS
	77   22 Oct	

**REPORTED DISTRIBUTOR INVENTORY  
AS OF 3:00 PM GMT, 26 Sep 2002**

MODELS

 [Back to Top](#)

- [IBIS Model of SN74AS244A](#) (SDAM009, 65 KB - Updated: 08/09/2000)  
[IBIS Model of SN74AS244A](#) (SDAM009, 10 KB, ZIP - Updated: 08/09/2000)

---

[Products](#) | [Applications](#) | [Support](#) | [TI&ME](#)



© Copyright 1995-2002 Texas Instruments Incorporated. All rights reserved.

[Trademarks](#) | [Privacy Policy](#) | [Terms of Use](#)



**PRODUCT FOLDER** | PRODUCT INFO: [FEATURES](#) | [DESCRIPTION](#) | [DATASHEETS](#) | [PRICING/AVAILABILITY/PKG](#) |  
[APPLICATION NOTES](#) | [RELATED DOCUMENTS](#)

PRODUCT SUPPORT: [TRAINING](#)

## SN74ALS244C-1, Octal Buffers/Line Drivers with 3-State Outputs

DEVICE STATUS: ACTIVE

PARAMETER NAME	SN74ALS244C-1
Voltage Nodes (V)	5
Vcc range (V)	4.75 to 5.25
Input Level	TTL
Output Level	TTL
Output Drive (mA)	-15/48
tpd max (ns)	10
Static Current	20.5

### FEATURES

[▲ Back to Top](#)

- 3-State Outputs Drive Bus Lines or Buffer Memory Address Registers
- pnp Inputs Reduce dc Loading
- Package Options Include Plastic Small-Outline (DW) Packages, Ceramic Chip Carriers (FK), and Standard Plastic (N) and Ceramic (J) 300-mil DIPs

### DESCRIPTION

[▲ Back to Top](#)

These octal buffers and line drivers are designed specifically to improve the performance and density of 3-state memory address drivers, clock drivers, and bus-oriented receivers and transmitters.

With the 'ALS240A, 'ALS241C, 'AS240A, and 'AS241A, these devices provide the choice of selected combinations of inverting outputs, symmetrical active-low output-enable ( $\overline{OE}$ ) inputs, and complementary OE and  $\overline{OE}$  inputs.

The -1 version of SN74ALS244C is identical to the standard version, except that the recommended maximum  $I_{OL}$  for the -1 version is 48 mA. There is no -1 version of the SN54ALS244C.

The SN54ALS244C and SN54AS244A are characterized for operation over the full military temperature range of -55°C to 125°C. The SN74ALS244C and SN74AS244A are characterized for operation from 0°C to 70°C.

### TECHNICAL DOCUMENTS

[▲ Back to Top](#)

To view the following documents, [Acrobat Reader 4.0](#) is required.

To download a document to your hard drive, right-click on the link and choose 'Save'.

### DATASHEET

[▲ Back to Top](#)

Full datasheet in Acrobat PDF: [sn74als244c-1.pdf](#) (110 KB, Rev.C) (Updated: 08/01/1995)

View Application Notes for [Digital Logic](#)

- [Advanced Schottky \(ALS and AS\) Logic Families](#) (SDAA010 - Updated: 08/01/1995)
- [Bus-Interface Devices With Output-Damping Resistors Or Reduced-Drive Outputs \(Rev. A\)](#) (SCBA012A - Updated: 08/01/1997)
- [Designing With Logic \(Rev. C\)](#) (SDYA009C - Updated: 06/01/1997)
- [Evaluation of Nickel/Palladium/Gold-Finished Surface-Mount Integrated Circuits](#) (SZZA026 - Updated: 06/20/2001)
- [Input and Output Characteristics of Digital Integrated Circuits](#) (SDYA010 - Updated: 10/01/1996)
- [Live Insertion](#) (SDYA012 - Updated: 10/01/1996)
- [Timing Differences of 10-pF Versus 50pF Loading](#) (SCEA004 - Updated: 11/01/1996)

**RELATED DOCUMENTS**View Related Documentation for [Digital Logic](#)

- [Logic Reference Guide](#) (SCYB004, 1032 KB - Updated: 10/23/2001)
- [Logic Selection Guide Second Half 2002 \(Rev. R\)](#) (SDYU001R, 4274 KB - Updated: 07/19/2002)
- [Military Semiconductors Selection Guide 2002 \(Rev. B\)](#) (SGYC003B, 1648 KB - Updated: 04/22/2002)

**PRICING/AVAILABILITY/PKG****DEVICE INFORMATION**

ORDERABLE DEVICE	STATUS	PACKAGE TYPE PINS	TEMP (°C)	PRODUCT CONTENT	BUDGETARY PRICING QTY   SUS	STD PACK QTY
SN74ALS244C-1DW	ACTIVE	SOP (DW)   20	0 TO 70	<a href="#">View Contents</a>	1KU   1.02	25
SN74ALS244C-1DWR	ACTIVE	SOP (DW)   20	0 TO 70	<a href="#">View Contents</a>	1KU   1.02	2000
SN74ALS244C-1N	ACTIVE	PDIP (N)   20	0 TO 70	<a href="#">View Contents</a>	1KU   0.98	20
SN74ALS244C-1NSR	ACTIVE	SOP (NS)   20		<a href="#">View Contents</a>	1KU   0.98	2000

**TI INVENTORY STATUS  
AS OF 3:00 PM GMT, 26 Sep 2002**

IN STOCK	IN PROGRESS QTY DATE	LEAD TIME
N/A*	>10k   14 Oct	4 WKS
N/A*	>10k   11 Oct	4 WKS
820	30   07 Oct	4 WKS
	>10k   14 Oct	
N/A*	>10k   24 Sep	4 WKS
	>10k   25 Sep	
	>10k   14 Oct	

**REPORTED DISTRIBUTOR INVENTORY  
AS OF 3:00 PM GMT, 26 Sep 2002**

DISTRIBUTOR COMPANY REGION	IN STOCK	PURCHASE
Avnet   AMERICA	450	<a href="#">BUY NOW</a>

Table Data Updated on: 9/26/2002