	74A OCTAL BUFFER/I WITH 3-STATE OU SCAS171B – MARCH 1987 – REVISED SEPTE
 EPIC[™] (Enhanced-Performance Implanted	DB, DW, NT, OR PW PACKAGE
CMOS) 1-µm Process	(TOP VIEW)
 3-State Outputs Drive Bus Lines or Buffer	1Y1 [1 24] 1 0E
Memory Address Registers	1Y2 [2 23] 1A1
 Flow-Through Architecture Optimizes PCB	1Y3 [3 22] 1A2
Layout	1Y4 [4 21] 1A3
 Center-Pin V_{CC} and GND Pin	GND [5 20] 1A4
Configurations Minimize High-Speed	GND [6 19] V _{CC}
Switching Noise	GND [7 18] V _{CC}
 500-mA Typical Latch-Up Immunity at	GND [] 8 17 [] 2A1
125°C	2Y1 [] 9 16 [] 2A2
 Package Options Include Plastic Small-Outline (DW), Shrink Small-Outline (DB), and Thin Shrink Small-Outline (PW) Packages, and Standard Plastic DIPs (NT) 	2Y2 [10 15] 2A3 2Y3 [11 14] 2A4 2Y4 [12 13] 2OE

description

The 74AC11244 is an octal buffer or line driver designed specifically to improve both the performance and density of 3-state memory address drivers, clock drivers, and bus-oriented receivers and transmitters. The device can be used as two 4-bit buffers or one 8-bit buffer, with active-low output-enable (OE) inputs.

When \overline{OE} is low, the device passes noninverted 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.

The 74AC11244 is characterized for operation from -40°C to 85°C.

(each driver)									
INP	JTS	OUTPUT							
OE	Α	Y							
L	Н	Н							
L	L	L							
Н	Х	Z							

FUNCTION TABLE



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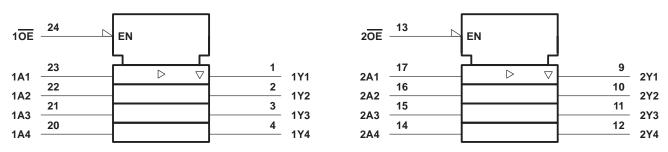
AC11244

EMBER 1998

74AC11244 **OCTAL BUFFER/DRIVER** WITH 3-STATE OUTPUTS

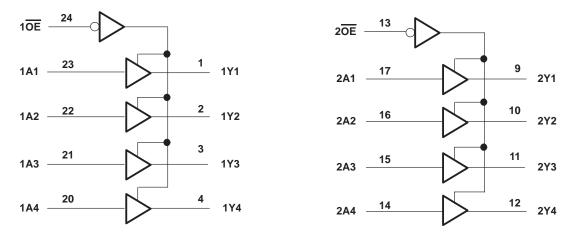
SCAS171B - MARCH 1987 - REVISED SEPTEMBER 1998

logic symbol[†]



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

logic diagram (positive logic)



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

Supply voltage range, V _{CC}		–0.5 V to 7 V
Input voltage range, V _I (see Note 1)		–0.5 V to V _{CC} + 0.5 V
Output voltage range, V _O (see Note 1)		–0.5 V to V _{CC} + 0.5 V
Input clamp current, I_{IK} ($V_I < 0$ or $V_I > V_{CC}$)		±20 mA
Output clamp current, IOK (VO < 0 or VO > VCC)	±50 mA
Continuous output current, $I_O (V_O = 0 \text{ to } V_{CC})$		±50 mA
Continuous current through V _{CC} or GND		±200 mA
Package thermal impedance, θ_{JA} (see Note 2):	DB package	104°C/W
	DW package	81°C/W
	PW package	120°C/W
	NT package	67°C/W
Storage temperature range, T _{stg}		–65°C to 150°C

[‡] 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.

NOTES: 1. The input and output voltage ratings may be exceeded if the input and output current ratings are observed.

2. The package thermal impedance is calculated in accordance with JESD 51, except for through-hole packages, which use a trace length of zero.



recommended operating conditions (see Note 3)

			MIN	NOM	MAX	UNIT
VCC	Supply voltage		3	5	5.5	V
		V _{CC} = 3 V	2.1			
V_{IH}	High-level input voltage	$V_{CC} = 4.5 V$	3.15			V
		V _{CC} = 5.5 V	3.85			
		V _{CC} = 3 V			0.9	
VIL	Low-level input voltage	$V_{CC} = 4.5 V$			1.35	V
		$V_{CC} = 5.5 V$			1.65	
VI	Input voltage		0		VCC	V
VO	Output voltage		0		VCC	V
		$V_{CC} = 3 V$			-4	
ЮН	High-level output current	V _{CC} = 4.5 V			-24	mA
		V _{CC} = 5.5 V			-24	
		$V_{CC} = 3 V$			12	
IOL	Low-level output current	V _{CC} = 4.5 V			24	mA
		V _{CC} = 5.5 V			24	
$\Delta t/\Delta v$	Input transition rise or fall rate		0		10	ns/V
Тд	Operating free-air temperature		-40		85	°C

NOTE 3: 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.

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

PARAMETER	TEST CONDITIONS	Vee	Т	д = 25°С	;	MIN		UNIT
PARAMETER	TEST CONDITIONS	Vcc	MIN	TYP	MAX	IVIIIN	MAX	UNIT
		3 V	2.9			2.9		
	I _{OH} = -50 μA	4.5 V	4.4			4.4		
		5.5 V	5.4			5.4		
VOH	$I_{OH} = -4 \text{ mA}$	3 V	2.58			2.48		V
		4.5 V	3.94			3.8		
	$I_{OL} = -24 \text{ mA}$	5.5 V	4.94			4.8		
	$I_{OH} = -75 \text{ mA}^{\dagger}$	5.5 V				3.85		
		3 V			0.1		0.1	
	I _{OL} = 50 μA	4.5 V			0.1		0.1	
		5.5 V			0.1		0.1	
VOL	I _{OL} = 12 mA	3 V			0.36		0.44	V
		4.5 V			0.36		0.44	
	I _{OL} = 24 mA	5.5 V			0.36		0.44	
	I _{OL} = 75 mA [†]	5.5 V					1.65	
lj	V _I = V _{CC} or GND	5.5 V			±0.1		±1	μΑ
loz	$V_{O} = V_{CC} \text{ or } GND$	5.5 V			±0.5		±5	μΑ
ICC	$V_{I} = V_{CC} \text{ or GND}, \qquad I_{O} = 0$	5.5 V			8		80	μA
Ci	V _I = V _{CC} or GND	5 V		4				рF
Co	$V_{O} = V_{CC}$ or GND	5 V		10				pF

[†] Not more than one output should be tested at a time, and the duration of the test should not exceed 10 ms.

74AC11244 OCTAL BUFFER/DRIVER WITH 3-STATE OUTPUTS SCAS171B – MARCH 1987 – REVISED SEPTEMBER 1998

switching characteristics over recommended operating free-air temperature range, V_{CC} = 3.3 V \pm 0.3 V (unless otherwise noted) (see Figure 1)

PARAMETER	FROM	то	Т	₄ = 25°C	;	MIN	MAX	UNIT
PARAMETER	(INPUT)	(OUTPUT)	MIN	TYP	MAX		WIAA	
^t PLH	٨	V	1.5	7.1	9.3	1.5	10.2	ns
^t PHL	A	'	1.5	6.3	8.6	1.5	9.5	115
^t PZH		V	1.5	8	10.7	1.5	11.8	ns
^t PZL	OE	I	1.5	7.9	10.6	1.5	11.9	115
^t PHZ	OE	V	1.5	5.9	7.9	1.5	8.3	200
^t PLZ	UE		1.5	7.2	9.4	1.5	9.9	ns

switching characteristics over recommended operating free-air temperature range, V_{CC} = 5 V \pm 0.5 V (unless otherwise noted) (see Figure 1)

PARAMETER	FROM	то	Т,	₄ = 25°C	;	MIN	MAX	UNIT
PARAMETER	(INPUT)	(OUTPUT)	MIN	TYP	MAX			UNIT
^t PLH	٨	V	1.5	4.9	6.7	1.5	7.3	ns
^t PHL	A	'	1.5	4.5	6.4	1.5	6.9	115
^t PZH	OE	V	1.5	5.4	7.7	1.5	8.5	20
^t PZL	OE	T	1.5	5.4	7.6	1.5	8.5	ns
^t PHZ	OE	V	1.5	5.2	7	1.5	7.3	200
^t PLZ	UE	ſ	1.5	5.8	7.8	1.5	8.2	ns

operating characteristics, V_{CC} = 5 V, T_A = 25°C

	PARAMETER	TEST CO	TYP	UNIT		
C Dower discipation conscitance per huffer/driv	Dowor discipation consoltance per huffer/driver	Outputs enabled	C ₁ = 50 pF, f = 1 MHz		27	nE.
Cpd	Power dissipation capacitance per buffer/driver	Outputs disabled	CL = 50 pr,		9	p⊢



 $2 \times V_{CC}$ 0 TEST **S**1 **S1** O Open **500** Ω Open tPLH/tPHL From Output $\Lambda \Lambda \Lambda$ tPLZ/tPZL $2 \times V_{CC}$ Under Test 0 GND GND tPHZ/tPZH $C_L = 50 \text{ pF}$ ≶ **500** Ω (see Note A) LOAD CIRCUIT Output Vcc Control 50% 50% (low-level 0 V enabling) tPZL -Vcc tPLZ -Output ≈ Vcc Input 50% 50% 50% V_{CC} Waveform 1 20% V_{CC} 0 V S1 at $2 \times V_{CC}$ Vol (see Note B) ^tPLH tPHZ -^tPHL tPZH -Output Vон Vон Waveform 2 80% V_{CC} 50% V_{CC} 50% V_{CC} 50% V_{CC} Output S1 at GND · V_{OL} ≈ 0 V (see Note B) **VOLTAGE WAVEFORMS VOLTAGE WAVEFORMS**

PARAMETER MEASUREMENT INFORMATION

- NOTES: A. CL 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 1 MHz, Z_O = 50 Ω , t_r = 3 ns, t_f = 3 ns.
 - D. The outputs are measured one at a time with one input transition per measurement.

Figure 1. Load Circuit and Voltage Waveforms





24-Jan-2013

PACKAGING INFORMATION

Orderable Device	Status	Package Type	Package Drawing	Pins	Package Qty	Eco Plan (2)	Lead/Ball Finish	MSL Peak Temp	Op Temp (°C)	Top-Side Markings	Samples
74AC11244DBLE	OBSOLETE	SSOP	DB	24		TBD	Call TI	Call TI	-40 to 85		
74AC11244DBR	ACTIVE	SSOP	DB	24	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	AE244	Sample
74AC11244DBRE4	ACTIVE	SSOP	DB	24	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	AE244	Sample
74AC11244DBRG4	ACTIVE	SSOP	DB	24	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	AE244	Sample
74AC11244DW	ACTIVE	SOIC	DW	24	25	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	AC11244	Sample
74AC11244DWE4	ACTIVE	SOIC	DW	24	25	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	AC11244	Sample
74AC11244DWG4	ACTIVE	SOIC	DW	24	25	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	AC11244	Sample
74AC11244DWR	ACTIVE	SOIC	DW	24	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	AC11244	Sample
74AC11244DWRE4	ACTIVE	SOIC	DW	24	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	AC11244	Sample
74AC11244DWRG4	ACTIVE	SOIC	DW	24	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	AC11244	Sample
74AC11244NT	ACTIVE	PDIP	NT	24	15	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type	-40 to 85	74AC11244NT	Sample
74AC11244NTE4	ACTIVE	PDIP	NT	24	15	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type	-40 to 85	74AC11244NT	Sample
74AC11244PW	ACTIVE	TSSOP	PW	24	60	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	AE244	Sample
74AC11244PWE4	ACTIVE	TSSOP	PW	24	60	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	AE244	Sample
74AC11244PWG4	ACTIVE	TSSOP	PW	24	60	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	AE244	Sample
74AC11244PWLE	OBSOLETE	TSSOP	PW	24		TBD	Call TI	Call TI	-40 to 85		
74AC11244PWR	ACTIVE	TSSOP	PW	24	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	AE244	Sampl
74AC11244PWRE4	ACTIVE	TSSOP	PW	24	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	AE244	Sampl



24-Jan-2013

Orderable Device	Status	Package Type	Package Drawing	Pins	Package Qty	Eco Plan	Lead/Ball Finish	MSL Peak Temp	Op Temp (°C)	Top-Side Markings	Samples
	(1)		Drawing			(2)		(3)		(4)	
74AC11244PWRG4	ACTIVE	TSSOP	PW	24	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	AE244	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.

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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.

⁽⁴⁾ Only one of markings shown within the brackets will appear on the physical device.

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PACKAGE MATERIALS INFORMATION

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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
74AC11244DBR	SSOP	DB	24	2000	330.0	16.4	8.2	8.8	2.5	12.0	16.0	Q1
74AC11244DWR	SOIC	DW	24	2000	330.0	24.4	10.75	15.7	2.7	12.0	24.0	Q1
74AC11244PWR	TSSOP	PW	24	2000	330.0	16.4	6.95	8.3	1.6	8.0	16.0	Q1

TEXAS INSTRUMENTS

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PACKAGE MATERIALS INFORMATION

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*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
74AC11244DBR	SSOP	DB	24	2000	367.0	367.0	38.0
74AC11244DWR	SOIC	DW	24	2000	367.0	367.0	45.0
74AC11244PWR	TSSOP	PW	24	2000	367.0	367.0	38.0

NT (R-PDIP-T**) 24 pins shown

PLASTIC DUAL-IN-LINE PACKAGE



All integrations are in minimeters. Dimensioning and toil
 B. This drawing is subject to change without notice.

The 28 pin end lead shoulder width is a vendor option, either half or full width.



DW (R-PDSO-G24)

PLASTIC SMALL OUTLINE



NOTES: A. All linear dimensions are in inches (millimeters). Dimensioning and tolerancing per ASME Y14.5M-1994.

B. This drawing is subject to change without notice.

C. Body dimensions do not include mold flash or protrusion not to exceed 0.006 (0,15).

D. Falls within JEDEC MS-013 variation AD.



PW (R-PDSO-G24)

PLASTIC SMALL OUTLINE



NOTES:

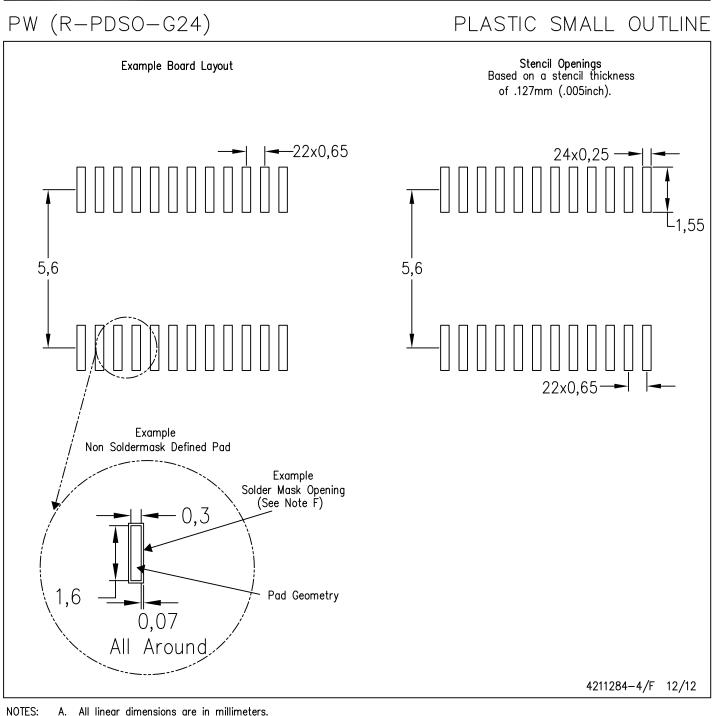
A. All linear dimensions are in millimeters. Dimensioning and tolerancing per ASME Y14.5M-1994.
B. This drawing is subject to change without notice.

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





All linear dimensions are in millimeters. Α.

- 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.



MECHANICAL DATA

MSSO002E - JANUARY 1995 - REVISED DECEMBER 2001

DB (R-PDSO-G**)

PLASTIC SMALL-OUTLINE

28 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.
- D. Falls within JEDEC MO-150



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