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Kind regards,

Team Nexperia

74LV244

Octal buffer/line driver; 3-state Rev. 4 — 1 March 2016

Product data sheet

1. **General description**

The 74LV244 is a low-voltage Si-gate CMOS device and is pin and function compatible with 74HC244 and 74HCT244.

The 74LV244 is an octal non-inverting buffer/line driver with 3-state outputs. The output enable inputs 10E and 20E control the 3-state outputs. A HIGH on nOE causes the outputs to assume a high impedance OFF-state. The 74LV244 is identical to the 74LV240 but has non-inverting outputs.

2. Features and benefits

- Wide operating voltage: 1.0 V to 5.5 V
- Optimized for low voltage applications: 1.0 V to 3.6 V
- Accepts TTL input levels between V_{CC} = 2.7 V and V_{CC} = 3.6 V
- Typical V_{OLP} (output ground bounce) < 0.8 V at V_{CC} = 3.3 V; T_{amb} = 25 °C
- Typical V_{OHV} (output V_{OH} undershoot) > 2 V at V_{CC} = 3.3 V; T_{amb} = 25 °C
- Complies with JEDEC standard no. 7A
- Multiple package options
- ESD protection:
 - ♦ HBM JESD22-A114F exceeds 2000 V
 - MM JESD22-A115-A exceeds 200 V

Ordering information 3.

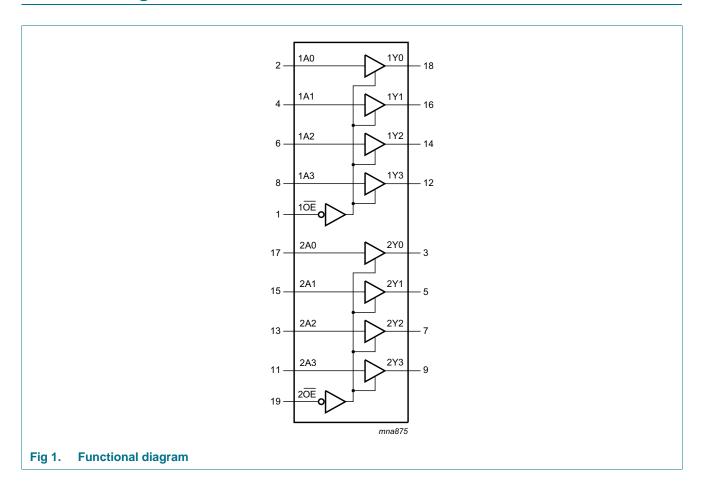
Table 1. Ordering information

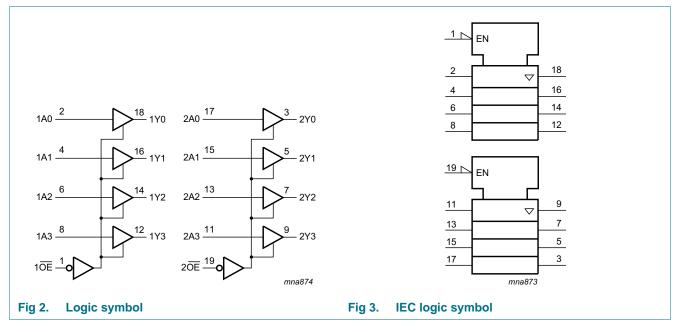
Type number	Package									
	Temperature range Name Description									
74LV244D	-40 °C to +125 °C	SO20	plastic small outline package; 20 leads; body width 7.5 mm	SOT163-1						
74LV244DB	−40 °C to +125 °C	SSOP20	plastic shrink small outline package; 20 leads; body width 5.3 mm	SOT339-1						
74LV244PW	−40 °C to +125 °C	TSSOP20	plastic thin shrink small outline package; 20 leads; body width 4.4 mm	SOT360-1						



Octal buffer/line driver; 3-state

4. Block diagram

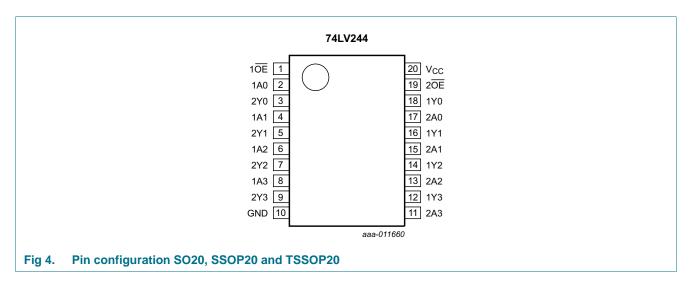




Octal buffer/line driver; 3-state

5. Pinning information

5.1 Pinning



5.2 Pin description

Table 2. Pin description

Symbol	Pin	Description
1 OE , 2 OE	1, 19	output enable input (active LOW)
1A0, 1A1, 1A2, 1A3	2, 4, 6, 8	data input
2Y0, 2Y1, 2Y2, 2Y3	3, 5, 7, 9	bus output
GND	10	ground (0 V)
2A0, 2A1, 2A2, 2A3	17, 15, 13, 11	data input
1Y0, 1Y1, 1Y2, 1Y3	18, 16, 14, 12	bus output
V _{CC}	20	supply voltage

6. Functional description

Table 3. Function table[1]

Input nOE	Output			
nOE	nAn	nYn		
L	L	L		
L	Н	Н		
Н	X	Z		

[1] H = HIGH voltage level; L = LOW voltage level; X = don't care; Z = high-impedance OFF-state.

Octal buffer/line driver; 3-state

7. Limiting values

Table 4. Limiting values

In accordance with the Absolute Maximum Rating System (IEC 60134). Voltages are referenced to GND (ground = 0 V).

Symbol	Parameter	Conditions		Min	Max	Unit
V_{CC}	supply voltage			-0.5	+7.0	V
I _{IK}	input clamping current	$V_{I} < -0.5 \text{ V or } V_{I} > V_{CC} + 0.5 \text{ V}$		-	±20	mA
I _{OK}	output clamping current	$V_{O} < -0.5 \text{ V or } V_{O} > V_{CC} + 0.5 \text{ V}$		-	±50	mA
Io	output current	$-0.5 \text{ V} < \text{V}_{\text{O}} < \text{V}_{\text{CC}} + 0.5 \text{ V}$		-	±35	mA
I _{CC}	supply current			-	70	mA
I _{GND}	ground current			-70	-	mA
T _{stg}	storage temperature			-65	+150	°C
P _{tot}	total power dissipation	$T_{amb} = -40 ^{\circ}\text{C} \text{ to } +125 ^{\circ}\text{C}$				
		SO20	[1]	-	500	mW
		SSOP20 and TSSOP20	[2]	-	400	mW

^[1] For SO20 packages: P_{tot} derates linearly with 8 mW/K above 70 °C.

8. Recommended operating conditions

Table 5. Operating conditions

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
V _{CC}	supply voltage	[1]	1.0	3.3	5.5	V
VI	input voltage		0	-	V _{CC}	V
Vo	output voltage		0	-	V _{CC}	V
T _{amb}	ambient temperature		-40	-	+85	°C
			-40	-	+125	°C
Δt/ΔV	input transition rise and fall	V _{CC} = 1.0 V to 2.0 V	0	-	500	ns/V
	rate	V _{CC} = 2.0 V to 2.7 V	0	-	200	ns/V
		V _{CC} = 2.7 V to 3.6 V	0	-	100	ns/V
		V _{CC} = 3.6 V to 5.5 V	0	-	50	ns/V

^[1] The LV is guaranteed to function down to V_{CC} = 1.0 V (input levels GND or V_{CC}). DC characteristics are guaranteed from V_{CC} = 1.2 V to V_{CC} = 5.5 V.

^[2] For SSOP20 and TSSOP20 packages: Ptot derates linearly with 5.5 mW/K above 60 °C.

Octal buffer/line driver; 3-state

9. Static characteristics

Table 6. Static characteristics

Over recommended operating conditions. Voltages are referenced to GND (ground = 0 V).

Symbol	Parameter	Conditions	-40	°C to +8	5 °C	-40 °C to	Unit	
			Min	Typ[1]	Max	Min	Max	
V _{IH}	HIGH level	V _{CC} = 1.2 V	0.9	-	-	0.9		V
	input voltage	V _{CC} = 2.0 V	1.4	-	-	1.4		V
		V _{CC} = 2.7 V to 3.6 V	2.0	-	-	2.0		V
		V _{CC} = 4.5 V to 5.5 V	0.7V _{CC}	-	-	0.7V _{CC}		V
V _{IL}	LOW level	V _{CC} = 1.2 V	-	-	0.3		0.3	V
	input voltage	V _{CC} = 2.0 V	-	-	0.6		0.6	V
		V _{CC} = 2.7 V to 3.6 V	-	-	0.8		0.8	V
		V _{CC} = 4.5 V to 5.5 V	-	-	0.3V _{CC}		0.3V _{CC}	V
V _{OH}	HIGH level	$V_I = V_{IH}$ or V_{IL} ; $I_O = -100 \mu A$						
	output voltage	V _{CC} = 1.2 V	-	1.2	-	-	-	V
		V _{CC} = 2.0 V	1.8	2.0	-	1.8	-	V
		V _{CC} = 2.7 V	2.5	2.7	-	2.5	-	V
		V _{CC} = 3.0 V	2.8	3.0	-	2.8	-	V
		V _{CC} = 4.5 V	4.3	4.5	-	4.3	-	V
		$V_I = V_{IH}$ or V_{IL}						
		$V_{CC} = 3.0 \text{ V}; I_{O} = -8 \text{ mA}$	2.40	2.82	-	2.20	-	V
		$V_{CC} = 4.5 \text{ V}; I_{O} = -16 \text{ mA}$	3.60	4.20	-	3.50	-	V
V _{OL}	LOW level	$V_I = V_{IH}$ or V_{IL} ; $I_O = 100 \mu A$						
	output voltage	V _{CC} = 1.2 V	-	0	-	-	-	V
		V _{CC} = 2.0 V	-	0	0.2	-	0.2	V
		V _{CC} = 2.7 V	-	0	0.2	-	0.2	V
		V _{CC} = 3.0 V	-	0	0.2	-	0.2	V
		V _{CC} = 4.5 V	-	0	0.2	-	0.2	V
		V _{CC} = 3.0 V; I _O = 8 mA	-	0.25	0.40	-	0.50	V
		V _{CC} = 4.5 V; I _O = 16 mA	-	0.35	0.55	-	0.65	V
I _I	input leakage current	$V_{CC} = 5.5 \text{ V}; V_I = V_{CC} \text{ or GND}$	-	-	1.0	-	1.0	μΑ
l _{oz}	3-State output OFF-state current	$V_{CC} = 3.6 \text{ V}; V_I = V_{IH} \text{ or } V_{IL};$ $V_O = V_{CC} \text{ or GND}$	-	-	5	-	10	μА
I _{CC}	supply current	V_{CC} = 5.5 V; V_I = V_{CC} or GND; I_O = 0 A	-	-	20	-	160	μА
Δl _{CC}	additional supply current	per input; V_{CC} = 2.7 V to 3.6 V; $V_I = V_{CC} - 0.6$ V	-	-	500	-	850	μΑ
Cı	input capacitance		-	3.5	-	-	-	pF

^[1] All typical values are measured at T_{amb} = 25 °C.

Octal buffer/line driver; 3-state

10. Dynamic characteristics

Table 7. Dynamic characteristics

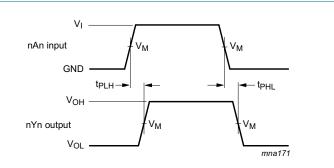
GND (ground = 0 V); for test circuit, see Figure 7

Symbol	Parameter	Conditions	-40	°C to +8	5 °C	-40 °C t	Unit	
			Min	Typ[1]	Max	Min	Max	
t _{pd}	propagation delay	1An to 1Yn; 2An to 2Yn; [2] see Figure 5						
		V _{CC} = 1.2 V	-	50		-	-	ns
		V _{CC} = 2.0 V	-	17	24	-	31	ns
		V _{CC} = 2.7 V	-	13	17	-	23	ns
		V _{CC} = 3.0 V to 3.6 V	-	9	14	-	18	ns
		$V_{CC} = 3.3 \text{ V}; C_L = 15 \text{ pF}$	-	8	-	-	-	ns
		V _{CC} = 4.5 V to 5.5 V	-	-	12	-	15	ns
t _{en}	enable time	1OE to 1Yn; 2OE to 2Yn; [2] see Figure 6						
		V _{CC} = 1.2 V	-	65	-	-	-	ns
		V _{CC} = 2.0 V	-	22	39	-	49	ns
		V _{CC} = 2.7 V	-	16	29	-	36	ns
		V _{CC} = 3.0 V to 3.6 V	-	12	23	-	29	ns
		V _{CC} = 4.5 V to 5.5 V	-	-	19	-	24	ns
t _{dis}	disable time	1OE to 1Yn; 2OE to 2Yn; [2] see Figure 6						
		V _{CC} = 1.2 V	-	60		-	-	ns
		V _{CC} = 2.0 V	-	22	34	-	43	ns
		V _{CC} = 2.7 V	-	17	24	-	32	ns
		V _{CC} = 3.0 V to 3.6 V	-	13	21	-	26	ns
		V _{CC} = 4.5 V to 5.5 V	-	-	16	-	19	ns
C _{PD}	power dissipation capacitance	$V_I = GND \text{ to } V_{CC}; V_{CC} = 3.3 \text{ V}$ [3]	-	35	-	-	-	ns

- [1] Unless otherwise stated, all typical values are measured at T_{amb} = 25 °C and nominal V_{CC} .
- [2] t_{pd} is the same as t_{PLH} and t_{PHL} .
 - t_{en} is the same as t_{PZL} and t_{PZH} .
 - t_{dis} is the same as t_{PLZ} and $t_{\text{PHZ}}.$
- [3] C_{PD} is used to determine the dynamic power dissipation $P_D = C_{PD} \times V_{CC}^2 \times f_i + \Sigma (C_L \times V_{CC}^2 \times f_o) (P_D \text{ in } \mu \text{W})$, where:
 - f_i = input frequency in MHz;
 - f_o = output frequency in MHz;
 - $\Sigma (C_L \times V_{CC}^2 \times f_0) = \text{sum of outputs};$
 - C_L = output load capacitance in pF;
 - V_{CC} = supply voltage in V.

Octal buffer/line driver; 3-state

11. Waveforms



Measurement points are given in Table 8.

 V_{OL} and V_{OH} are typical voltage output levels that occur with the output load.

Fig 5. Input (nAn) to output (nYn) propagation delays

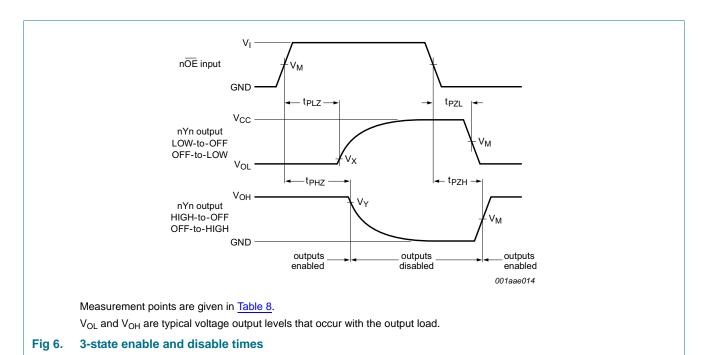
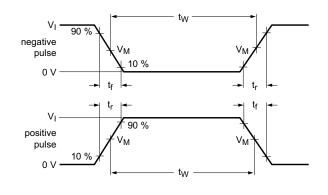
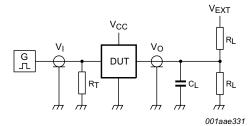


Table 8. Measurement points

Supply voltage	Input	Output						
V _{CC}	V _M	V _M	V _X	V _Y				
< 2.7 V	0.5V _{CC}	0.5V _{CC}	$V_{OL} + 0.1V_{CC}$	V _{OH} – 0.1V _{CC}				
2.7 V to 3.6 V	1.5 V	1.5 V	V _{OL} + 0.3 V	V _{OH} – 0.3 V				
≥ 4.5 V	0.5V _{CC}	0.5V _{CC}	V _{OL} + 0.1V _{CC}	V _{OH} – 0.1V _{CC}				

Octal buffer/line driver; 3-state





Test data is given in Table 9.

Definitions test circuit:

 R_T = Termination resistance should be equal to output impedance Z_0 of the pulse generator.

 C_L = Load capacitance including jig and probe capacitance.

R_L = Load resistance.

S1 = Test selection switch.

Fig 7. Test circuit for measuring switching times

Table 9. Test data

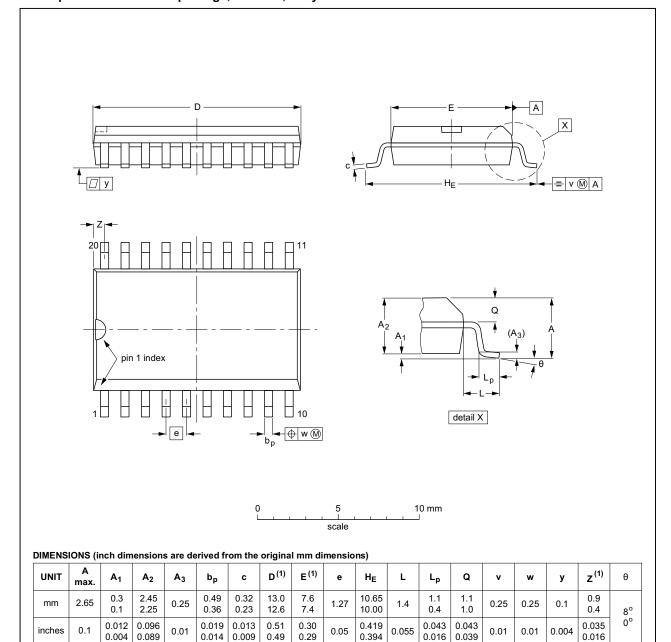
Supply voltage	Input		Load		V _{EXT}				
V _{CC}	VI	t _r , t _f	CL	R _L	t _{PHL} , t _{PLH}	t _{PZH} , t _{PHZ}	t _{PZL} , t _{PLZ}		
< 2.7 V	V _{CC}	≤ 2.5 ns	50 pF	1 kΩ	open	GND	2V _{CC}		
2.7 V to 3.6 V	2.7 V	≤ 2.5 ns	15 pF, 50 pF	1 kΩ	open	GND	2V _{CC}		
≥ 4.5 V	V _{CC}	≤ 2.5 ns	50 pF	1 kΩ	open	GND	2V _{CC}		

Octal buffer/line driver; 3-state

12. Package outline

SO20: plastic small outline package; 20 leads; body width 7.5 mm

SOT163-1



Note

1. Plastic or metal protrusions of 0.15 mm (0.006 inch) maximum per side are not included.

OUTLINE		REFER	EUROPEAN	ISSUE DATE		
VERSION	IEC	JEDEC	JEITA		PROJECTION	ISSUE DATE
SOT163-1	075E04	MS-013				99-12-27 03-02-19

Fig 8. Package outline SOT163-1 (SO20)

74I V244

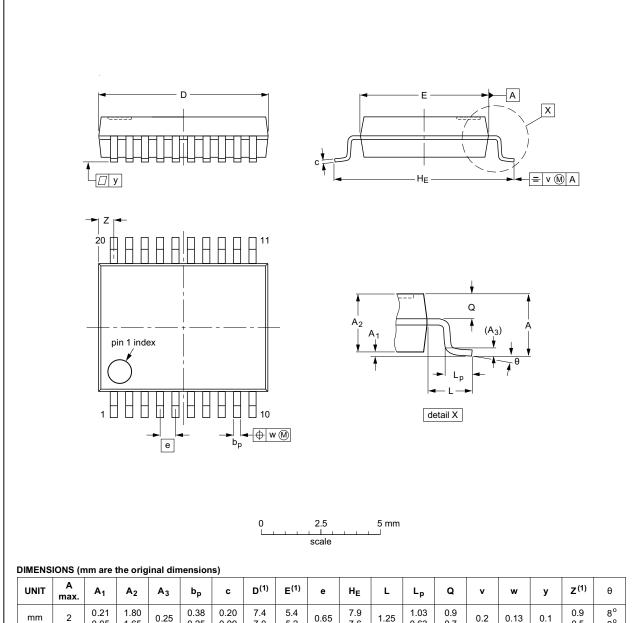
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74LV244 **NXP Semiconductors**

SSOP20: plastic shrink small outline package; 20 leads; body width 5.3 mm

SOT339-1



UNIT	A max.	A ₁	A ₂	A ₃	bp	С	D ⁽¹⁾	E ⁽¹⁾	е	HE	L	Lp	Q	v	w	у	Z ⁽¹⁾	θ
mm	2	0.21 0.05	1.80 1.65	0.25	0.38 0.25	0.20 0.09	7.4 7.0	5.4 5.2	0.65	7.9 7.6	1.25	1.03 0.63	0.9 0.7	0.2	0.13	0.1	0.9 0.5	8° 0°

Note

1. Plastic or metal protrusions of 0.2 mm maximum per side are not included.

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MO-150				99-12-27 03-02-19
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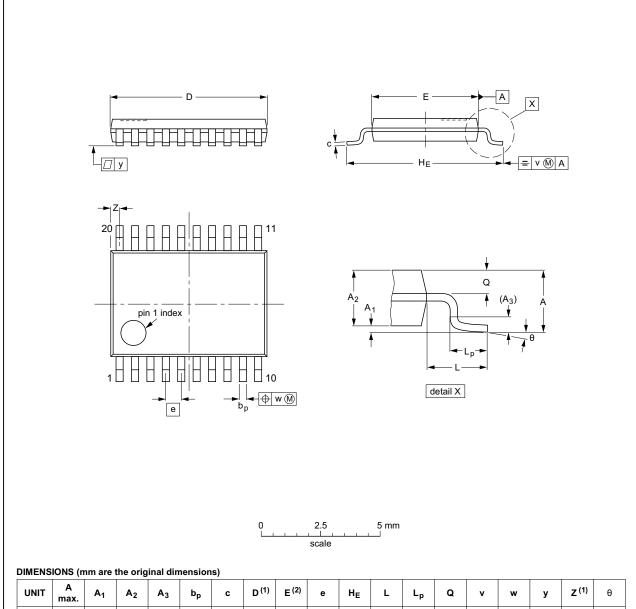
Package outline SOT339-1 (SSOP20) Fig 9.

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74LV244 **NXP Semiconductors**

TSSOP20: plastic thin shrink small outline package; 20 leads; body width 4.4 mm

SOT360-1



UNIT	A max.	A ₁	A ₂	A ₃	bp	С	D ⁽¹⁾	E (2)	е	HE	L	Lp	Q	v	w	у	Z ⁽¹⁾	θ
mm	1.1	0.15 0.05	0.95 0.80	0.25	0.30 0.19	0.2 0.1	6.6 6.4	4.5 4.3	0.65	6.6 6.2	1	0.75 0.50	0.4 0.3	0.2	0.13	0.1	0.5 0.2	8° 0°

Notes

- 1. Plastic or metal protrusions of 0.15 mm maximum per side are not included.
- 2. Plastic interlead protrusions of 0.25 mm maximum per side are not included.

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IEC	JEDEC	JEITA		PROJECTION	ISSUE DATE	
	MO-153				99-12-27 03-02-19	
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Fig 10. Package outline SOT360-1 (TSSOP20)

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Octal buffer/line driver; 3-state

13. Abbreviations

Table 10. Abbreviations

Acronym	Description			
CMOS	Complementary Metal Oxide Semiconductor			
DUT	Device Under Test			
ESD	ElectroStatic Discharge			
НВМ	Human Body Model			
MM	Machine Model			
TTL	Transistor-Transistor Logic			

14. Revision history

Table 11. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes				
74LV244 v.4	20160301	Product data sheet	-	74LV244 v.3				
Modifications:	Type number	74LV244N (SOT146-1) remov	ed.					
74LV244 v.3 20140311		Product data sheet	-	74LV244 v.2				
Modifications:	 The format of this data sheet has been redesigned to comply with the new identity guidelines of NXP Semiconductors. 							
	 Legal texts have been adapted to the new company name where appropriate. 							
74LV244 v.2 19980520		Product specification	-	74LV244 v.1				
74LV244 v.1	-	-	-	-				

Octal buffer/line driver; 3-state

15. Legal information

15.1 Data sheet status

Document status[1][2]	Product status[3]	Definition
Objective [short] data sheet	Development	This document contains data from the objective specification for product development.
Preliminary [short] data sheet	Qualification	This document contains data from the preliminary specification.
Product [short] data sheet	Production	This document contains the product specification.

- [1] Please consult the most recently issued document before initiating or completing a design.
- [2] The term 'short data sheet' is explained in section "Definitions"
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Octal buffer/line driver; 3-state

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