Octal buffer/line driver; 30 Ω series termination; 5 V tolerant input/output; 3-state

Rev. 5 — 3 November 2011

Product data sheet

1. General description

The 74LVC2244A is an octal non-inverting buffer/line driver with 3-state outputs. The 3-state outputs are controlled by the output enable input pins $1\overline{OE}$ and $2\overline{OE}$. A HIGH on pin $n\overline{OE}$ causes the outputs to assume a high-impedance OFF-state. Schmitt trigger action at all inputs makes the circuit highly tolerant for slower input rise and fall times. The device is designed with $30~\Omega$ series termination resistors in both HIGH and LOW output stages to reduce line noise.

Inputs can be driven from either 3.3 V or 5 V devices. When disabled, up to 5.5 V can be applied to the outputs. These features allow the use of these devices as translators in mixed 3.3 V and 5 V applications.

2. Features and benefits

- 5 V tolerant inputs/outputs, for interfacing with 5 V logic
- Wide supply voltage range from 1.2 V to 3.6 V
- CMOS low-power consumption
- Direct interface with TTL levels
- Integrated 30 Ω termination resistors
- Complies with JEDEC standard:
 - ◆ JESD8-7A (1.65 V to 1.95 V)
 - ◆ JESD8-5A (2.3 V to 2.7 V)
 - ◆ JESD8-C/JESD36 (2.7 V to 3.6 V)
- ESD protection:
 - ♦ HBM JESD22-A114F exceeds 2000 V
 - MM JESD22-A115B exceeds 200 V
 - ◆ CDM JESD22-C101E exceeds 1000 V
- Specified from -40 °C to +85 °C and -40 °C to +125 °C



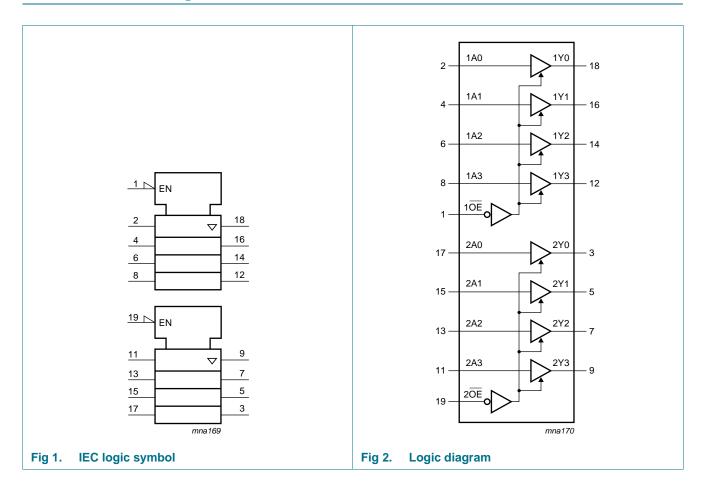
Octal buffer/line driver; 30 Ω series termination; 3-state

3. Ordering information

Table 1. Ordering information

Type number	Package	Package										
	Temperature range	Name	Description	Version								
74LVC2244AD	–40 °C to +125 °C	SO20	plastic small outline package; 20 leads; body width 7.5 mm	SOT163-1								
74LVC2244ADB	–40 °C to +125 °C	SSOP20	plastic shrink small outline package; 20 leads; body width 5.3 mm	SOT339-1								
74LVC2244APW	–40 °C to +125 °C	TSSOP20	plastic thin shrink small outline package; 20 leads; body width 4.4 mm	SOT360-1								
74LVC2244ABQ	–40 °C to +125 °C	DHVQFN20	plastic dual in-line compatible thermal enhanced very thin quad flat package; no leads; 20 terminals; body 2.5 \times 4.5 \times 0.85 mm	SOT764-1								

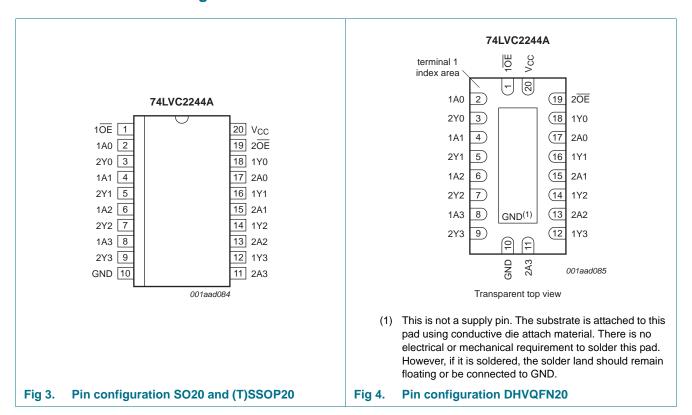
4. Functional diagram



Octal buffer/line driver; 30 Ω series termination; 3-state

5. Pinning information

5.1 Pinning



5.2 Pin description

Table 2. Pin description

Symbol	Pin	Description
1 OE	1	output enable input (active LOW)
2 OE	19	output enable input (active LOW)
1A[0:3]	2, 4, 6, 8	data input
2A[0:3]	17, 15, 13, 11	data input
1Y[0:3]	18, 16, 14, 12	data output
2Y[0:3]	3, 5, 7, 9	data output
GND	10	ground (0 V)
V _{CC}	20	supply voltage

Octal buffer/line driver; 30 Ω series termination; 3-state

6. Functional description

Table 3. Functional 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

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	+6.5	V
I _{IK}	input clamping current	V _I < 0 V	-50	-	mA
VI	input voltage		<u>[1]</u> –0.5	+6.5	V
I _{OK}	output clamping current	$V_O > V_{CC}$ or $V_O < 0 V$	-	±50	mA
Vo	output voltage	output HIGH or LOW state	<u>[2]</u> −0.5	$V_{CC} + 0.5$	V
		output 3-state	<u>[2]</u> −0.5	+6.5	V
Io	output current	$V_O = 0 V \text{ to } V_{CC}$	-	±50	mA
I _{CC}	supply current		-	100	mA
I_{GND}	ground current		-100	-	mA
T _{stg}	storage temperature		-65	+150	°C
P _{tot}	total power dissipation	$T_{amb} = -40 ^{\circ}\text{C} \text{ to } +125 ^{\circ}\text{C}$	[3] _	500	mW
P _{tot}	total power dissipation	$T_{amb} = -40 ^{\circ}\text{C} \text{ to } +125 ^{\circ}\text{C}$	[3]	500	mW

^[1] The minimum input voltage ratings may be exceeded if the input current ratings are observed.

For (T)SSOP20 packages: above 60 °C derate linearly with 5.5 mW/K.

For DHVQFN20 packages: above 60 °C derate linearly with 4.5 mW/K.

^[2] The output voltage ratings may be exceeded if the output current ratings are observed.

^[3] For SO20 packages: above 70 °C derate linearly with 8 mW/K.

Octal buffer/line driver; 30 Ω series termination; 3-state

8. Recommended operating conditions

Table 5. Recommended operating conditions

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
V_{CC}	supply voltage		1.65	-	3.6	V
		functional	1.2	-	-	V
V_{I}	input voltage		0	-	5.5	V
Vo	output voltage	output HIGH or LOW state	0	-	V_{CC}	V
		output 3-state	0	-	5.5	V
T _{amb}	ambient temperature		-40	-	+125	°C
$\Delta t/\Delta V$	input transition rise	$V_{CC} = 1.65 \text{ V to } 2.7 \text{ V}$	0	-	20	ns/V
an	and fall rate	$V_{CC} = 2.7 \text{ V to } 3.6 \text{ V}$	0	-	10	ns/V

9. Static characteristics

Table 6. Static characteristics

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

Symbol	Parameter	Conditions	-40	°C to +8	35 °C	–40 °C to	+125 °C	Unit
			Min	Typ[1]	Max	Min	Max	
V _{IH}	HIGH-level	V _{CC} = 1.2 V	1.08	-	-	1.08	-	٧
	input voltage	V _{CC} = 1.65 V to 1.95 V	$0.65 \times V_{CC}$	-	-	$0.65 \times V_{CC}$	-	V
		V _{CC} = 2.3 V to 2.7 V	1.7	-	-	1.7	-	V
		V _{CC} = 2.7 V to 3.6 V	2.0	-	-	2.0	-	V
V _{IL}	LOW-level	V _{CC} = 1.2 V	-	-	0.12	-	0.12	V
	input voltage	V _{CC} = 1.65 V to 1.95 V	-	-	$0.35 \times V_{CC}$	-	$0.35 \times V_{CC}$	V
		V _{CC} = 2.3 V to 2.7 V	-	-	0.7	-	0.7	V
		V _{CC} = 2.7 V to 3.6 V	-	-	0.8	-	0.8	V
V _{OH}	HIGH-level	$V_I = V_{IH}$ or V_{IL}						
	output voltage	$I_O = -100 \mu A;$ $V_{CC} = 1.65 \text{ V to } 3.6 \text{ V}$	V _{CC} - 0.2	V_{CC}	-	V _{CC} – 0.3	-	V
		$I_{O} = -2 \text{ mA}; V_{CC} = 1.65 \text{ V}$	1.2	-	-	1.05	-	٧
		$I_{O} = -4 \text{ mA}; V_{CC} = 2.3 \text{ V}$	1.8	-	-	1.65	-	V
		$I_{O} = -6 \text{ mA}; V_{CC} = 2.7 \text{ V}$	2.2	-	-	2.05	-	٧
		$I_{O} = -9 \text{ mA}; V_{CC} = 2.7 \text{ V}$	2.4	-	-	2.25	-	٧
		$I_O = -12 \text{ mA}; V_{CC} = 3.0 \text{ V}$	2.2	-	-	2.0	-	V
V _{OL}	LOW-level	$V_I = V_{IH}$ or V_{IL}						
	output voltage	$I_O = 100 \mu A;$ $V_{CC} = 1.65 \text{ V to } 3.6 \text{ V}$	-	-	0.2	-	0.3	V
		$I_O = 2 \text{ mA}; V_{CC} = 1.65 \text{ V}$	-	-	0.45	-	0.65	٧
		$I_O = 4 \text{ mA}; V_{CC} = 2.3 \text{ V}$	-	-	0.6	-	0.8	V
		$I_{O} = 6 \text{ mA}; V_{CC} = 2.7 \text{ V}$	-	-	0.4	-	0.6	V
		$I_O = 12 \text{ mA}; V_{CC} = 3.0 \text{ V}$	-	-	0.55	-	0.8	V
I _I	input leakage current	V_{CC} = 3.6 V; V_I = 5.5 V or GND	-	±0.1	±5	-	±20	μА

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Octal buffer/line driver; 30 Ω series termination; 3-state

 Table 6.
 Static characteristics ...continued

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

Symbol	Parameter	Conditions	-40	0 °C to +85	S °C	–40 °C to	+125 °C	Unit
			Min		Max	Min	Max	
I _{OZ}	OFF-state output current	$V_I = V_{IH}$ or V_{IL} ; $V_{CC} = 3.6$ V; $V_O = 5.5$ V or GND;	-	±0.1	±5	-	±20	μΑ
I _{OFF}	power-off leakage current	$V_{CC} = 0 \text{ V}$; $V_I \text{ or } V_O = 5.5 \text{ V}$	-	±0.1	±10	-	±20	μА
I _{CC}	supply current	V_{CC} = 3.6 V; V_I = V_{CC} or GND; I_O = 0 A	-	0.1	10	-	40	μΑ
ΔI_{CC}	additional supply current	per input pin; $V_{CC} = 2.7 \text{ V to } 3.6 \text{ V};$ $V_I = V_{CC} - 0.6 \text{ V}; I_O = 0 \text{ A}$	-	5	500	-	5000	μА
Cı	input capacitance	$V_{CC} = 0 \text{ V to } 3.6 \text{ V};$ $V_{I} = \text{GND to } V_{CC}$	-	4.0	-	-	-	pF

^[1] All typical values are measured at V_{CC} = 3.3 V (unless stated otherwise) and T_{amb} = 25 °C.

Octal buffer/line driver; 30 Ω series termination; 3-state

10. Dynamic characteristics

Table 7. Dynamic characteristics

Voltages are referenced to GND (ground = 0 V). For test circuit see Figure 7.

Symbol	Parameter	Conditions		T _{amb} =	-40 °C to	+85 °C	-40 °C to	+125 °C	Unit
				Min	Typ[1]	Max	Min	Max	
t _{pd}	propagation delay	nAn to nYn; see Figure 5	[2]						
		V _{CC} = 1.2 V		-	35	-	-	-	ns
		V_{CC} = 1.65 V to 1.95 V		1.9	7.8	17.7	1.9	18.6	ns
		V_{CC} = 2.3 V to 2.7 V		1.5	4.1	8.7	1.5	9.6	ns
		$V_{CC} = 2.7 \text{ V}$		1.5	4.1	6.4	1.5	7.0	ns
		$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$		1.5	3.5	5.5	1.5	8.0	ns
t _{en}	enable time	nOE to nYn; see Figure 6	[2]						
		$V_{CC} = 1.2 \text{ V}$		-	38	-	-	-	ns
	V_{CC} = 1.65 V to 1.95 V		2.3	8.9	19.7	2.3	20.7	ns	
		V_{CC} = 2.3 V to 2.7 V		1.9	5.0	10.3	1.9	11.4	ns
		$V_{CC} = 2.7 \text{ V}$		1.5	5.1	8.1	1.5	9.0	ns
		V_{CC} = 3.0 V to 3.6 V		1.0	4.0	7.1	1.0	10.5	ns
t _{dis}	disable time	nOE to nYn; see Figure 6	[2]						
		$V_{CC} = 1.2 \text{ V}$		-	9.0	-	-	-	ns
		V_{CC} = 1.65 V to 1.95 V		2.9	4.7	9.3	2.9	9.8	ns
		V_{CC} = 2.3 V to 2.7 V		1.0	2.6	5.0	1.0	5.6	ns
		$V_{CC} = 2.7 \text{ V}$		1.5	3.4	6.4	1.5	7.0	ns
		$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$		1.5	3.2	5.4	1.5	8.0	ns
t _{sk(o)}	output skew time	$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$	[3]	-	-	1.0	-	1.5	ns
C_{PD}	power dissipation	per input; $V_I = GND$ to V_{CC}	[4]						
	capacitance	$V_{CC} = 1.65 \text{ V to } 1.95 \text{ V}$		-	1.8	-	-	-	pF
		$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$		-	4.9	-	-	-	pF
		$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$		-	7.7	-	-	-	pF

^[1] Typical values are measured at T_{amb} = 25 °C and V_{CC} = 1.2 V, 1.8 V, 2.5 V, 2.7 V, and 3.3 V respectively.

$$P_D = C_{PD} \times V_{CC}{}^2 \times f_i \times N + \Sigma (C_L \times V_{CC}{}^2 \times f_o) \text{ where:}$$

 f_i = input frequency in MHz; f_o = output frequency in MHz

 C_L = output load capacitance in pF

V_{CC} = supply voltage in Volts

N = number of inputs switching

 $\Sigma(C_L \times V_{CC}^2 \times f_o)$ = sum of the outputs

^[2] t_{pd} is the same as t_{PLH} and t_{PHL} .

ten is the same as tPZL and tPZH.

 t_{dis} is the same as t_{PLZ} and t_{PHZ} .

^[3] Skew between any two outputs of the same package switching in the same direction. This parameter is guaranteed by design.

^[4] C_{PD} is used to determine the dynamic power dissipation (P_D in μW).

Octal buffer/line driver; 30 Ω series termination; 3-state

11. Waveforms

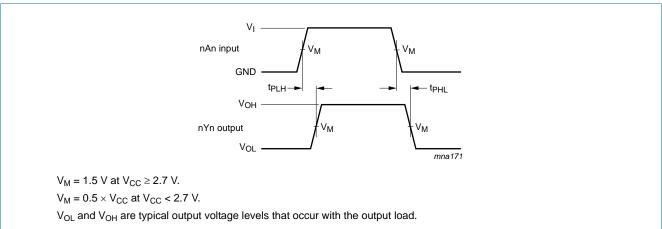
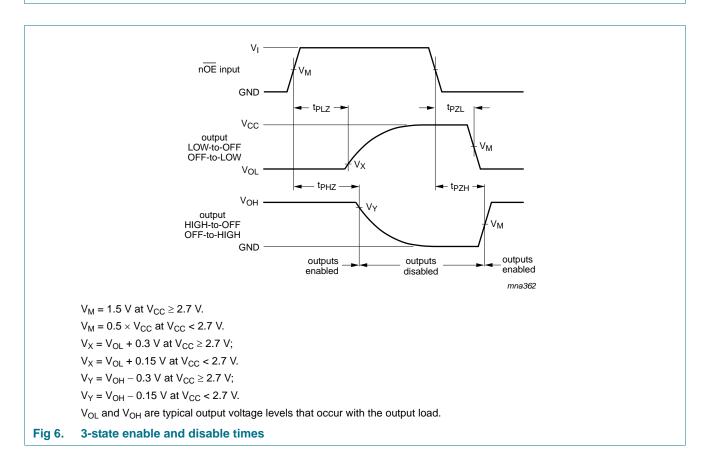
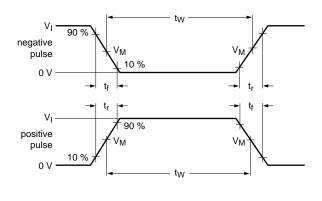
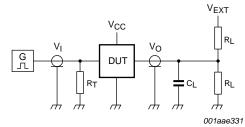


Fig 5. The input (nAn) to output (nYn) propagation delays



Octal buffer/line driver; 30 Ω series termination; 3-state





Test data is given in Table 8.

Definitions for test circuit:

 R_L = Load resistance.

 C_L = Load capacitance including jig and probe capacitance.

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

V_{EXT} = External voltage for measuring switching times.

Fig 7. Test circuit for measuring switching times

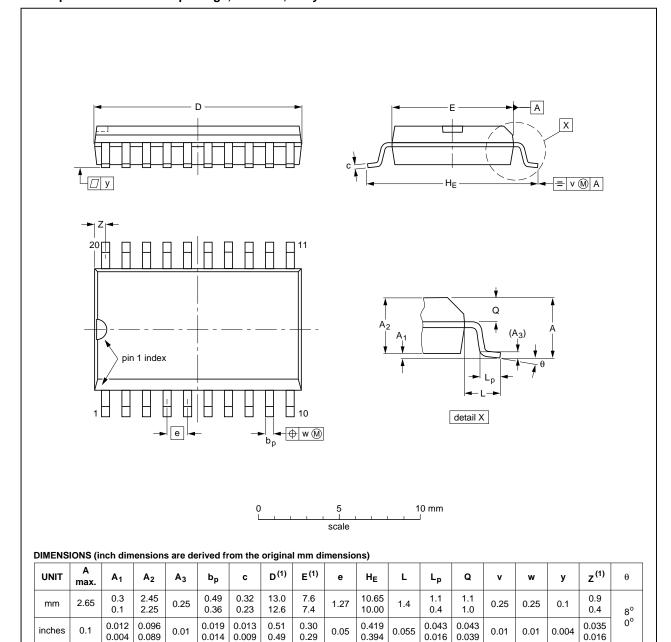
Table 8. Test data

Supply voltage	Input		Load		V _{EXT}	V _{EXT}			
	VI	t _r , t _f	CL	R _L	t_{PLH}, t_{PHL}	t_{PLZ}, t_{PZL}	t _{PHZ} , t _{PZH}		
1.2 V	V_{CC}	≤ 2 ns	30 pF	1 kΩ	open	$2\times V_{CC}$	GND		
1.65 V to 1.95 V	V_{CC}	≤ 2 ns	30 pF	1 kΩ	open	$2\times V_{CC}$	GND		
2.3 V to 2.7 V	V_{CC}	≤ 2 ns	30 pF	500Ω	open	$2\times V_{CC}$	GND		
2.7 V	2.7 V	≤ 2.5 ns	50 pF	500Ω	open	$2\times V_{CC}$	GND		
3.0 V to 3.6 V	2.7 V	≤ 2.5 ns	50 pF	500Ω	open	$2\times V_{CC}$	GND		

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	ON IEC JEDEC JEITA			PROJECTION	155UE DATE	
SOT163-1	075E04	MS-013				99-12-27 03-02-19

Fig 8. Package outline SOT163-1 (SO20)

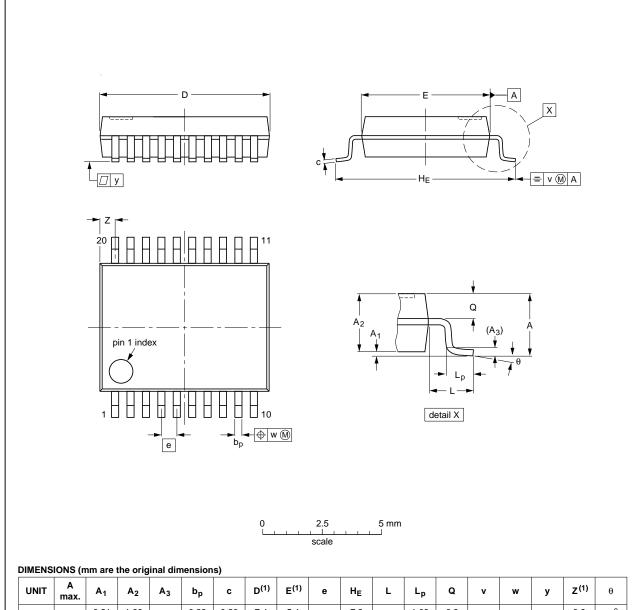
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SSOP20: plastic shrink small outline package; 20 leads; body width 5.3 mm

SOT339-1



	····· ································																	
UN	T A	. A ₁	A ₂	A ₃	bp	С	D ⁽¹⁾	E ⁽¹⁾	е	HE	L	Lp	Q	v	w	у	Z ⁽¹⁾	θ
mr	1 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.

OUTLINE		REFER	ENCES	EUROPEAN	ISSUE DATE	
VERSION	IEC	JEDEC	JEITA		PROJECTION	ISSUE DATE
SOT339-1		MO-150				99-12-27 03-02-19

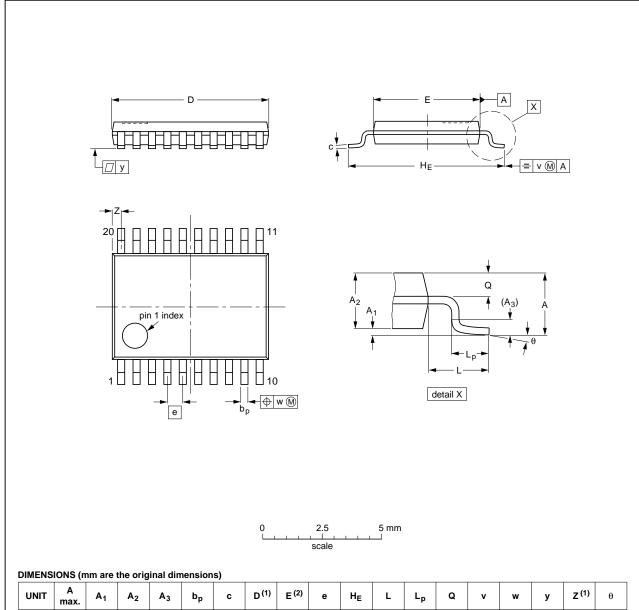
Fig 9. Package outline SOT339-1 (SSOP20)

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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°

- 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.

OUTLINE		REFER	EUROPEAN	ISSUE DATE		
VERSION	IEC	JEDEC	JEITA		PROJECTION	1330E DATE
SOT360-1		MO-153				99-12-27 03-02-19

Fig 10. Package outline SOT360-1 (TSSOP20)

74LVC2244A

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DHVQFN20: plastic dual in-line compatible thermal enhanced very thin quad flat package; no leads; 20 terminals; body 2.5 x 4.5 x 0.85 mm SOT764-1

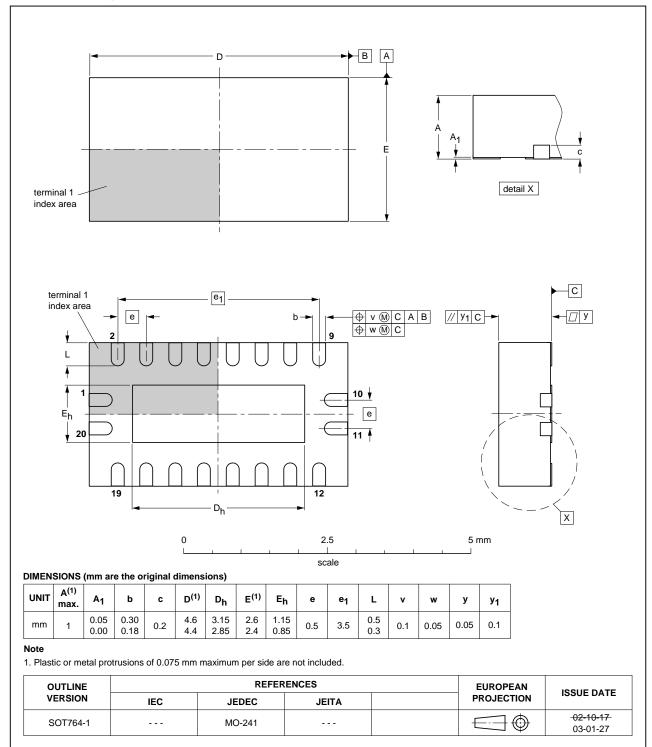


Fig 11. Package outline SOT764-1 (DHVQFN20)

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Octal buffer/line driver; 30 Ω series termination; 3-state

13. Abbreviations

Table 9. Abbreviations

Acronym	Description
CDM	Charged Device Model
DUT	Device Under Test
ESD	ElectroStatic Discharge
НВМ	Human Body Model
MM	Machine Model
TTL	Transistor-Transistor Logic

14. Revision history

Table 10. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
74LVC2244A v.5	20111103	Product data sheet	-	74LVC2244A v.4
Modifications:	 The format of t NXP Semicon 		esigned to comply with the	he new identity guidelines of
	 Legal texts have 	ve been adapted to the new	company name where	appropriate.
	• Table 4, Table	5, Table 6, Table 7 and Tabl	e 8: values added for lo	ower voltage ranges.
74LVC2244A v.4	20040407	Product specification	-	74LVC2244A v.3
74LVC2244A v.3	20021213	Product specification	-	74LVC2244A v.2
74LVC2244A v.2	20020618	Product specification	-	74LVC2244A v.1
74LVC2244A v.1	19990930	Product specification	-	-

Octal buffer/line driver; 30 Ω series termination; 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"
- [3] The product status of device(s) described in this document may have changed since this document was published and may differ in case of multiple devices. The latest product status information is available on the Internet at URL http://www.nexperia.com.

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