74LVC244A-Q100; 74LVCH244A-Q100

Octal buffer/line driver; 3-state Rev. 7 — 7 August 2023

Product data sheet

1. General description

The 74LVC244A-Q100; 74LVCH244A-Q100 is an octal non-inverting buffer/line driver with 3-state outputs. The 3-state outputs are controlled by the output enable inputs $1\overline{OE}$ and $2\overline{OE}$. A HIGH on $n\overline{OE}$ 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.

Inputs can be driven from either 3.3 V or 5.0 V devices. In 3-state operation, outputs can handle 5 V. These features allow the use of these devices as translators in a mixed 3.3 V and 5 V environment.

The 74LVCH244A-Q100 bus hold on data inputs eliminates the need for external pull-up resistors to hold unused inputs.

This product has been qualified to the Automotive Electronics Council (AEC) standard Q100 (Grade 1) and is suitable for use in automotive applications.

2. Features and benefits

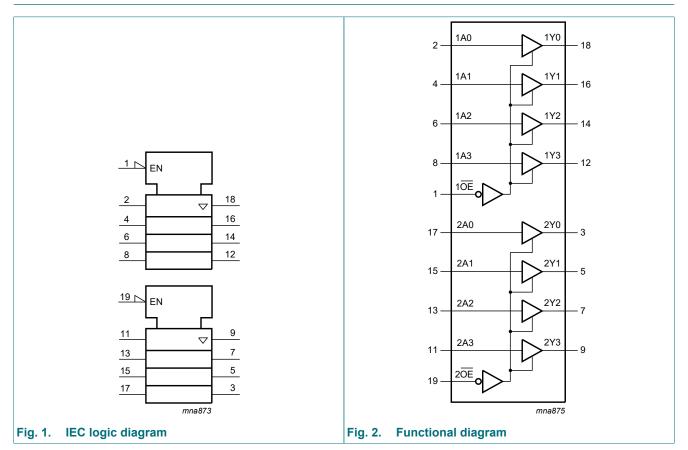
- Automotive product qualification in accordance with AEC-Q100 (Grade 1)
 - Specified from -40 °C to +85 °C and from -40 °C to +125 °C
- 5 V tolerant inputs/outputs for interfacing with 5 V logic
- Wide supply voltage range from 1.2 V to 3.6 V
- CMOS low-power consumption
- Direct interface with TTL levels
- Inputs accept voltages up to 5.5 V
- High-impedance when V_{CC} = 0 V
- Bus hold on all data inputs (74LVCH244A-Q100 only)
- 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: ANSI/ESDA/JEDEC JS-001 class 2 exceeds 2000 V
 - CDM: ANSI/ESDA/JEDEC JS-002 class C3 exceeds 1000 V
- Multiple package options
- DHVQFN package with Side-Wettable Flanks enabling Automatic Optical Inspection (AOI) of solder joints

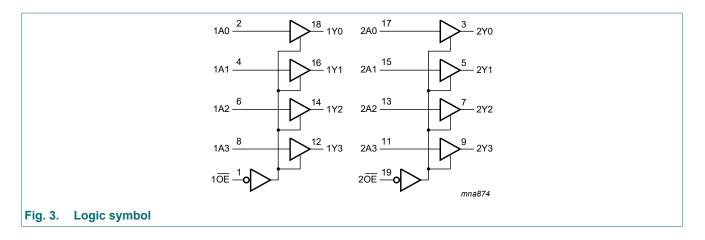
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3. Ordering information

Type number	Package							
	Temperature range	Name	Description	Version				
74LVC244AD-Q100 74LVCH244AD-Q100	-40 °C to +125 °C	SO20	plastic small outline package; 20 leads; body width 7.5 mm	<u>SOT163-1</u>				
74LVC244APW-Q100 74LVCH244APW-Q100	-40 °C to +125 °C	TSSOP20	plastic thin shrink small outline package; 20 leads; body width 4.4 mm	<u>SOT360-1</u>				
74LVC244ABQ-Q100 74LVCH244ABQ-Q100	-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 × 4.5 × 0.85 mm	<u>SOT764-1</u>				

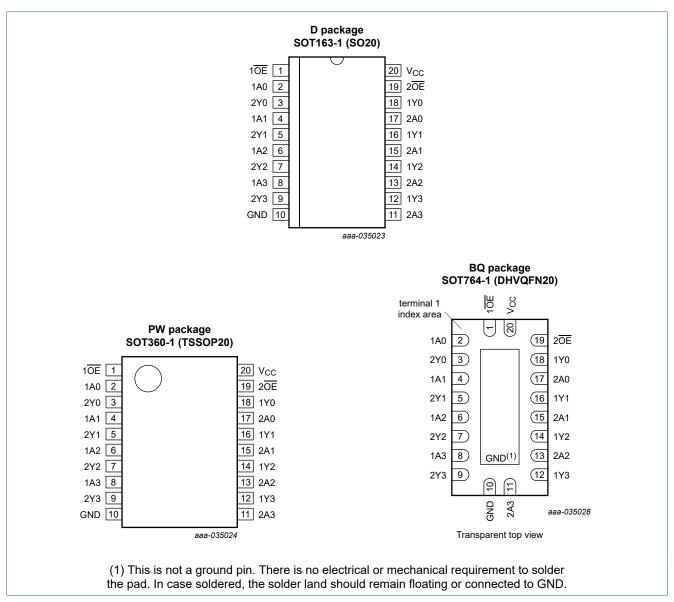
4. Functional diagram





5. Pinning information

5.1. Pinning



5.2. Pin description

Table 2. Pin description							
Symbol	Pin	Description					
1 <u>0E</u> , 2 <u>0E</u>	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	data output					
GND	10	ground (0 V)					
2A0, 2A1, 2A2, 2A3	17, 15, 13, 11	data input					
1Y0, 1Y1, 1Y2, 1Y3,	18, 16, 14, 12	data output					
V _{CC}	20	supply voltage					

6. Functional description

Table 3. Function table

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

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

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 ₁ < 0 V		-50	-	mA
VI	input voltage		[1]	-0.5	+6.5	V
Ι _{ΟΚ}	output clamping current	$V_{\rm O}$ > $V_{\rm CC}$ or $V_{\rm O}$ < 0 V		-	±50	mA
Vo	output voltage	output HIGH or LOW	[2]	-0.5	V _{CC} + 0.5	V
		output 3-state	[2]	-0.5	+6.5	V
lo	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 °C to +125 °C				
		SOT163-1 (SO20) SOT360-1 (TSSOP20) SOT764-1 (DHVQFN20)	[3]	-	500	mW

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

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

[3] For SOT163-1 (SO20) package: P_{tot} derates linearly with 12.3 mW/K above 109 °C.
 For SOT360-1 (TSSOP20) package: P_{tot} derates linearly with 10.0 mW/K above 100 °C.
 Example 100 °C.

For SOT764-1 (DHVQFN20) package: P_{tot} derates linearly with 12.9 mW/K above 111 °C.

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	-	3.6	V
VI	input voltage		0	-	5.5	V
Vo	output voltage	output HIGH or LOW	0	-	V _{CC}	V
		output 3-state	0	-	5.5	V
T _{amb}	ambient temperature	in free air	-40	-	+125	°C
Δt/ΔV	input transition rise and fall rate	V _{CC} = 1.2 V to 2.7 V	0	-	20	ns/V
		V _{CC} = 2.7 V to 3.6 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 +85	5 °C	-40 °C to	Unit	
			Min	Тур [1]	Мах	Min	Max	
V _{IH}	HIGH-level input	V _{CC} = 1.2 V	1.08	-	-	1.08	-	V
	voltage	V _{CC} = 1.65 V to 1.95 V	0.65V _{CC}	-	-	0.65V _{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 input	V _{CC} = 1.2 V	-	-	0.12	-	0.12	V
	voltage	V _{CC} = 1.65 V to 1.95 V	-	-	0.35V _{CC}	-	$0.35V_{CC}$	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 μA; V _{CC} = 1.65 V to 3.6 V	V _{CC} - 0.2	-	-	V _{CC} - 0.3	-	V
		I _O = -4 mA; V _{CC} = 1.65 V	1.2	-	-	1.05	-	V
		I _O = -8 mA; V _{CC} = 2.3 V	1.8	-	-	1.65	-	V
		I _O = -12 mA; V _{CC} = 2.7 V	2.2	-	-	2.05	-	V
		I _O = -18 mA; V _{CC} = 3.0 V	2.4	-	-	2.25	-	V
		I _O = -24 mA; V _{CC} = 3.0 V	2.2	-	-	2.0	-	V
V _{OL}	LOW-level output	V _I = V _{IH} or V _{IL}						
	voltage	I _O = 100 μA; V _{CC} = 1.65 V to 3.6 V	-	-	0.2	-	0.3	V
		I _O = 4 mA; V _{CC} = 1.65 V	-	-	0.45	-	0.65	V
		I _O = 8 mA; V _{CC} = 2.3 V	-	-	0.6	-	0.8	V
		I _O = 12 mA; V _{CC} = 2.7 V	-	-	0.4	-	0.6	V
		I _O = 24 mA; V _{CC} = 3.0 V	-	-	0.55	-	0.8	V

Symbol	Parameter	ameter Conditions				°C	-40 °C to	o +125 °C	Unit
				Min	Тур [1]	Мах	Min	Max	
lı	input leakage current	V _I = 5.5 V or GND; V _{CC} = 3.6 V	[2]	-	±0.1	±5	-	±20	μA
I _{OZ}	OFF-state output current	V _I = V _{IH} or V _{IL} ; V _O = 5.5 V or GND; V _{CC} = 3.6 V	[2]	-	±0.1	±5	-	±20	μA
I _{OFF}	power-off leakage current	$V_{\rm I} \text{ or } V_{\rm O} = 5.5 \text{ V}; V_{\rm CC} = 0.0 \text{ V}$		-	±0.1	±10	-	±20	μA
I _{CC}	supply current	V _I = V _{CC} or GND; I _O = 0 A; V _{CC} = 3.6 V		-	0.1	10	-	40	μA
ΔI _{CC}	additional supply current	per input pin; $V_I = V_{CC} - 0.6 V$; $I_O = 0 A$; $V_{CC} = 2.7 V$ to 3.6 V		-	5	500	-	5000	μA
CI	input capacitance			-	4.0	-	-	-	pF
I _{BHL}	HL bus hold LOW	V _{CC} = 1.65 V; V _I = 0.58 V	[3][4]	10	-	-	10	-	μA
	current	V _{CC} = 2.3 V; V _I = 0.7 V		30	-	-	25	-	μA
		V _{CC} = 3.0 V; V _I = 0.8 V		75	-	-	60	-	μA
I _{BHH}	bus hold HIGH	V _{CC} = 1.65 V; V _I = 1.07 V	[3][4]	-10	-	-	-10	-	μA
	current	V _{CC} = 2.3 V; V _I = 1.7 V		-30	-	-	-25	-	μA
		V _{CC} = 3.0 V; V _I = 2.0 V		-75	-	-	-60	-	μA
I _{BHLO}	bus hold LOW	V _{CC} = 1.95 V	[3][5]	200	-	-	200	-	μA
	overdrive current	V _{CC} = 2.7 V		300	-	-	300	-	μA
		V _{CC} = 3.6 V		500	-	-	500	-	μA
I _{внно}	bus hold HIGH	V _{CC} = 1.95 V	[3][5]	-200	-	-	-200	-	μA
	overdrive current	V _{CC} = 2.7 V		-300	-	-	-300	-	μA
		V _{CC} = 3.6 V		-500	-	-	-500	-	μA

[1]

All typical values are measured at V_{CC} = 3.3 V (unless stated otherwise) and T_{amb} = 25 °C. The bus hold circuit is switched off when V₁ > V_{CC} allowing 5.5 V on the input terminal. [2] [3] [4]

Valid for data inputs of bus hold parts only (74LVCH244A-Q100). Note that control inputs do not have a bus hold circuit.

The specified sustaining current at the data input holds the input below the specified V_1 level.

[5] The specified overdrive current at the data input forces the data input to the opposite input state.

74LVC_LVCH244A_Q100

10. Dynamic characteristics

Table 7. Dynamic characteristics

Voltages are referenced to GND (ground = 0 V). For test circuit see Fig. 6.

Symbol	Parameter	Conditions	-4	0 °C to +85	°C	-40 °C to	Unit	
			Min	Typ [1]	Max	Min	Max	
t _{pd}	propagation delay	nAn to nYn; see <u>Fig. 4</u> [2]						
		V _{CC} = 1.2 V	-	17.0	-	-	-	ns
		V _{CC} = 1.65 V to 1.95 V	1.5	6.4	13.7	1.5	15.8	ns
		V _{CC} = 2.3 V to 2.7 V	1.0	3.4	7.1	1.0	8.2	ns
		V _{CC} = 2.7 V	1.5	3.4	6.9	1.5	9.0	ns
		V _{CC} = 3.0 V to 3.6 V	1.5	2.9	5.9	1.5	7.5	ns
t _{en}	enable time	nOE to nYn; see Fig. 5 [2]						
		V _{CC} = 1.2 V	-	24.0	-	-	-	ns
		V _{CC} = 1.65 V to 1.95 V	1.5	7.0	17.3	1.5	20.0	ns
		V _{CC} = 2.3 V to 2.7 V	1.5	3.9	9.5	1.5	11.0	ns
		V _{CC} = 2.7 V	1.5	4.1	8.6	1.5	11.0	ns
		V _{CC} = 3.0 V to 3.6 V	1.0	3.2	7.6	1.0	9.5	ns
t _{dis}	disable time	nOE to nYn; see Fig. 5 [2]						
		V _{CC} = 1.2 V	-	9.0	-	-	-	ns
		V _{CC} = 1.65 V to 1.95 V	2.2	4.5	9.8	2.2	11.3	ns
		V _{CC} = 2.3 V to 2.7 V	0.5	3.6	5.5	0.5	6.4	ns
		V _{CC} = 2.7 V	1.5	3.3	6.8	1.5	8.5	ns
		V _{CC} = 3.0 V to 3.6 V	1.5	3.1	5.8	1.5	7.5	ns
t _{sk(o)}	output skew time	[3]	-	-	1.0	-	1.5	ns
C _{PD}	power dissipation	per input; V_I = GND to V_{CC} [4]						
	capacitance	V _{CC} = 1.65 V to 1.95 V	-	6.4	-	-	-	pF
		V _{CC} = 2.3 V to 2.7 V	-	9.6	-	-	-	pF
		V _{CC} = 3.0 V to 3.6 V	-	12.5	-	-	-	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.

 t_{pd} is the same as t_{PLH} and t_{PHL} . [2] t_{en} is the same as t_{PZL} and $t_{\text{PZH}}.$ t_{dis} is the same as t_{PLZ} and $t_{\text{PHZ}}.$

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

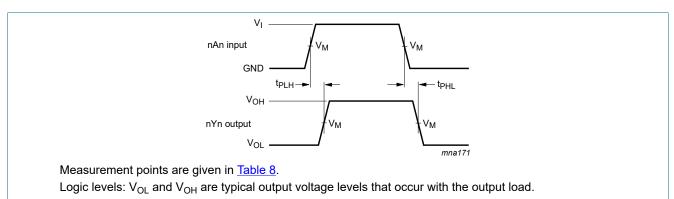
 C_{PD} is used to determine the dynamic power dissipation (P_D in μ W). $P_D = C_{PD} \times V_{CC}^2 \times f_i \times N + \Sigma (C_L \times V_{CC}^2 \times f_o)$ where: [4]

 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.



10.1. Waveforms and test circuit

Fig. 4. The input (nAn) to output (nYn) propagation delays

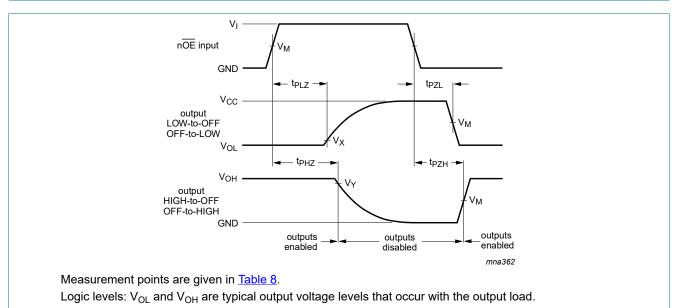
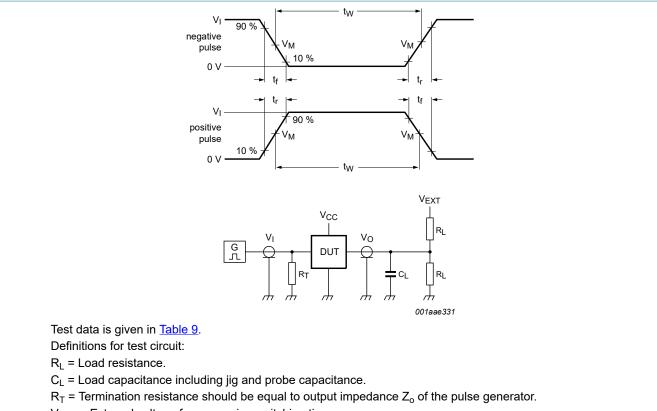


Fig. 5. 3-state enable and disable times

Table 8. Measurement points

Supply voltage	Input		Output	Output				
V _{cc}	VI	V _M	V _M	Vx	V _Y			
1.2 V	V _{CC}	0.5 × V _{CC}	$0.5 \times V_{CC}$	V _{OL} + 0.15 V	V _{OH} - 0.15 V			
1.65 V to 1.95 V	V _{CC}	$0.5 \times V_{CC}$	$0.5 \times V_{CC}$	V _{OL} + 0.15 V	V _{OH} - 0.15 V			
2.3 V to 2.7 V	V _{CC}	$0.5 \times V_{CC}$	$0.5 \times V_{CC}$	V _{OL} + 0.15 V	V _{OH} - 0.15 V			
2.7 V	2.7 V	1.5 V	1.5 V	V _{OL} + 0.3 V	V _{OH} - 0.3 V			
3.0 V to 3.6 V	2.7 V	1.5 V	1.5 V	V _{OL} + 0.3 V	V _{OH} - 0.3 V			



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

Fig. 6. Test circuit for measuring switching times

Table 9. Test data

Supply voltage	Input		Load	Load		V _{EXT}		
	VI	t _r , t _f	CL	RL	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 × V _{CC}	GND	
1.65 V to 1.95 V	V _{CC}	≤ 2 ns	30 pF	1 kΩ	open	2 × V _{CC}	GND	
2.3 V to 2.7 V	V _{CC}	≤ 2 ns	30 pF	500 Ω	open	$2 \times V_{CC}$	GND	
2.7 V	2.7 V	≤ 2.5 ns	50 pF	500 Ω	open	2 × V _{CC}	GND	
3.0 V to 3.6 V	2.7 V	≤ 2.5 ns	50 pF	500 Ω	open	$2 \times V_{CC}$	GND	

11. Package outline

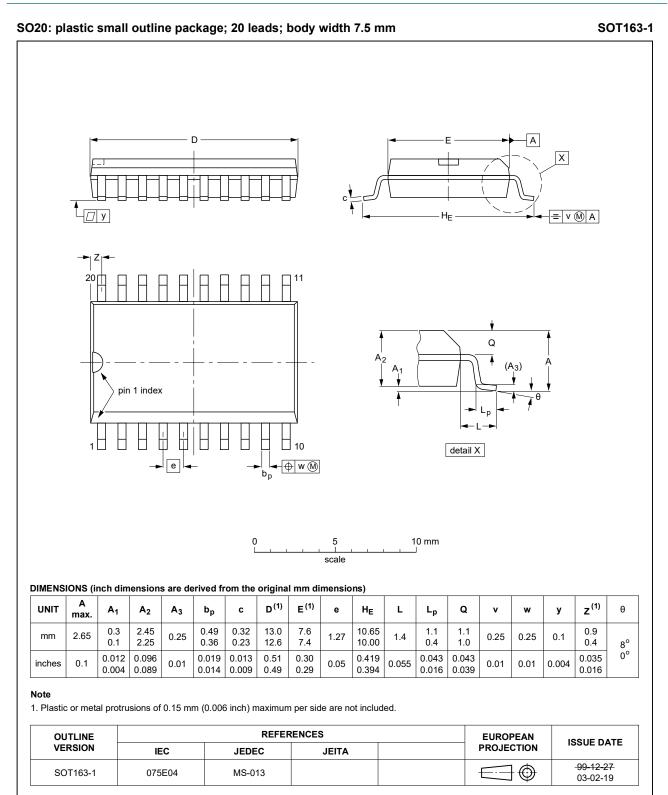


Fig. 7. Package outline SOT163-1 (SO20)

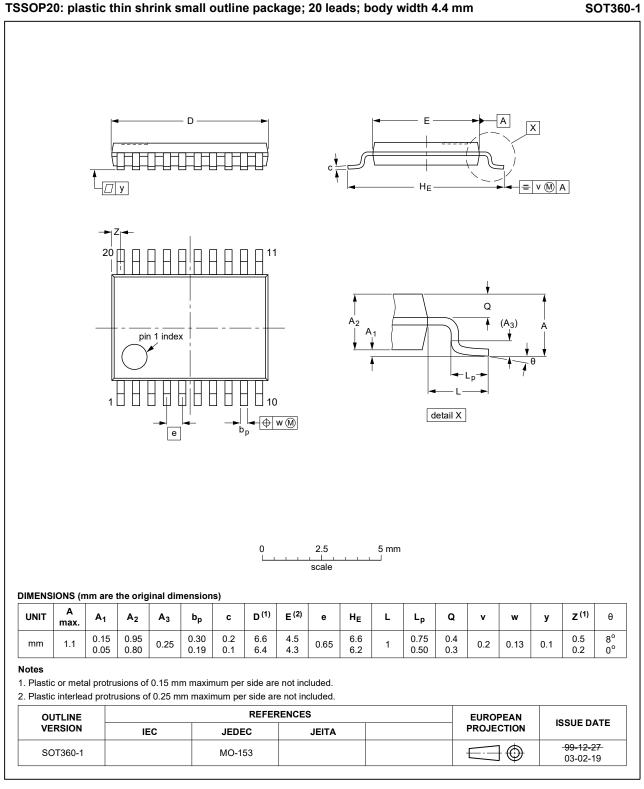


Fig. 8. Package outline SOT360-1 (TSSOP20)

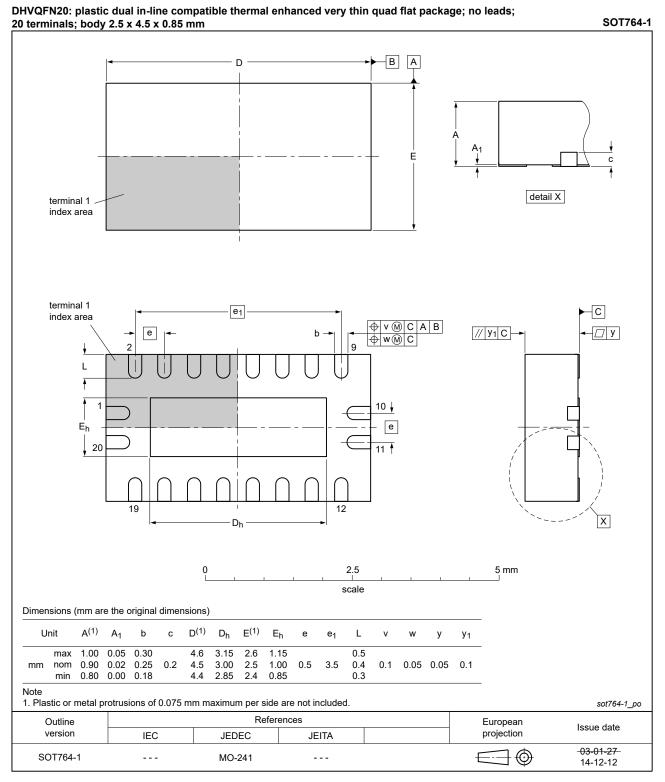


Fig. 9. Package outline SOT764-1 (DHVQFN20)

12. Abbreviations

Table 10. Abbreviati Acronym	Description
CDM	Charged Device Model
CMOS	Complementary Metal-Oxide Semiconductor
DUT	Device Under Test
ESD	ElectroStatic Discharge
НВМ	Human Body Model
TTL	Transistor-Transistor Logic

13. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
74LVC_LVCH244A_Q100 v.7	20230807	Product data sheet	-	74LVC_LVCH244A_Q100 v.6
Modifications:	<u>Section 2</u> : ES	SD specification updated a	ccording to the lat	est JEDEC standard.
74LVC_LVCH244A_Q100 v.6	20210215	Product data sheet	-	74LVC_LVCH244A_Q100 v.5
Modifications:	Type number	74LVCH244ADB-Q100 (S	SOT339-1 / SSOP	20) removed.
74LVC_LVCH244A_Q100 v.5	20200408	Product data sheet	-	74LVC_LVCH244A_Q100 v.4
Modifications:	<u>Section 2</u> up	dated.		
74LVC_LVCH244A_Q100 v.4	20190722	Product data sheet	-	74LVC_LVCH244A_Q100 v.3
	Type numberType number	r 74LVCH244AD-Q100 (SC r 74LVCH244ADB-Q100 (S r 74LVCH244ABQ-Q100 (S ating values for P _{tot} total po	SOT339-1) added. SOT764-1) added.	
74LVC_LVCH244A_Q100 v.3	20180813	Product data sheet	-	74LVC_LVCH244A_Q100 v.2
Modifications:	of Nexperia. • Legal texts h • Type number • Type number	ave been adapted to the n	ew company nam DT163-1) removed id 74LVCH244AD	1. B-Q100 (SOT339-1) removed.
74LVC_LVCH244A_Q100 v.2	20130813	Product data sheet	-	74LVC_LVCH244A_Q100 v.1
Modifications:	• 74LVC244AE	DB-Q100 and 74LVCH244[DB-Q100 added.	
74LVC_LVCH244A_Q100 v.1	20120823	Product data sheet	-	-

14. Legal information

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.

 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 <u>https://www.nexperia.com</u>.

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Octal buffer/line driver; 3-state

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