# 74LVC240A

Octal buffer/line driver with 5 V tolerant inputs/outputs; inverting; 3-state Rev. 9 — 6 May 2021

Product data sheet

# 1. General description

The 74LVC240A is an 8-bit inverting buffer/line driver with 3-state outputs. The device can be used as two 4-bit buffers or one 8-bit buffer. The device features two output enables (1OE and 20E), each controlling four of the 3-state outputs. A HIGH on nOE causes the outputs to assume a high-impedance OFF-state. Inputs can be driven from either 3.3 V or 5 V devices. This feature allows the use of these devices as translators in mixed 3.3 V and 5 V environments.

Schmitt-trigger action at all inputs makes the circuit tolerant of slower input rise and fall times.

This device is fully specified for partial power down applications using I<sub>OFF</sub>. The I<sub>OFF</sub> circuitry disables the output, preventing the potentially damaging backflow current through the device when it is powered down.

# 2. Features and benefits

- Overvoltage tolerant inputs to 5.5 V
- Wide supply voltage range from 1.2 to 3.6 V
- CMOS low power consumption
- Direct interface with TTL levels
- I<sub>OFF</sub> circuitry provides partial Power-down mode operation
  - 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
- Multiple package options
- Specified from -40 °C to +85 °C and -40 °C to +125 °C

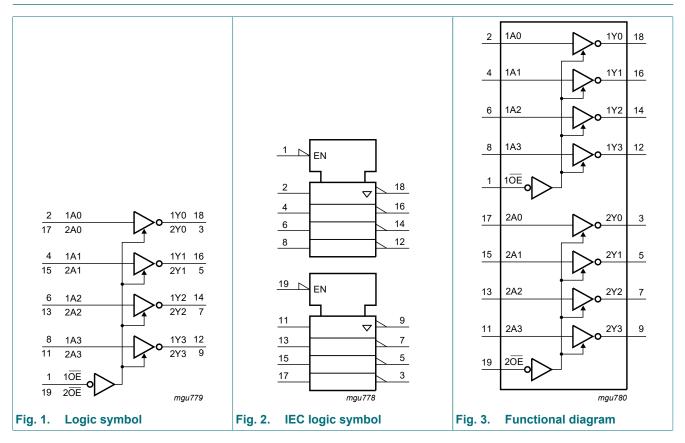
# 3. Ordering information

## **Table 1. Ordering information**

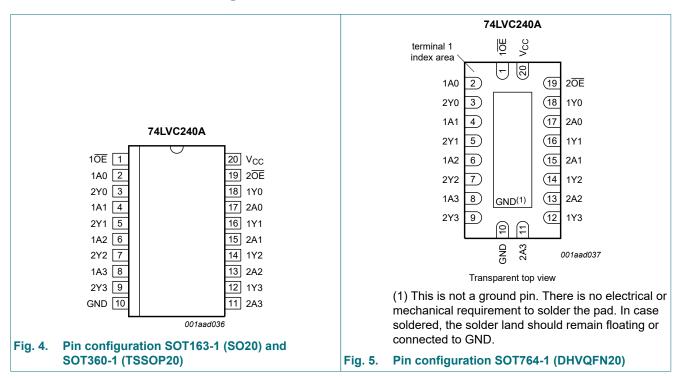
Type number	Package	Package					
	Temperature range	Name	Description	Version			
74LVC240AD	-40 °C to +125 °C	SO20	plastic small outline package; 20 leads; body width 7.5 mm	SOT163-1			
74LVC240APW	-40 °C to +125 °C	TSSOP20	plastic thin shrink small outline package; 20 leads; body width 4.4 mm	SOT360-1			
74LVC240ABQ	-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			

# nexperia

# 4. Functional diagram



# 5. Pinning information



## 5.1. Pinning

## 5.2. Pin description

Table 2. Pin description					
Symbol	Pin	Description			
10E, 20E	1, 19	output enable input (active LOW)			
1A0, 1A1, 1A2, 1A3	2, 4, 6, 8	data input			
2A0, 2A1, 2A2, 2A3	17, 15, 13, 11	data input			
1Y0, 1Y1, 1Y2, 1Y3	18, 16, 14, 12	data output			
2Y0, 2Y1, 2Y2, 2Y3	3, 5, 7, 9	data output			
GND	10	ground (0 V)			
V <sub>CC</sub>	20	power supply			

# 6. Functional description

## Table 3. Function selection

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

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

74LVC240A

# 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	Мах	Unit
V <sub>CC</sub>	supply voltage		-0.5	+6.5	V
I <sub>IK</sub>	input clamping current	V <sub>1</sub> < 0	-50	-	mA
VI	input voltage	[1]	-0.5	+6.5	V
I <sub>OK</sub>	output clamping current	$V_{\rm O} > V_{\rm CC}$ or $V_{\rm O} < 0$	-	±50	mA
Vo	output voltage	output HIGH or LOW state [2]	-0.5	V <sub>CC</sub> + 0.5	V
		output 3-state [2]	-0.5	+6.5	V
I <sub>O</sub>	output current	$V_{O} = 0 V \text{ to } V_{CC}$	-	±50	mA
I <sub>CC</sub>	supply current		-	100	mA
I <sub>GND</sub>	ground current		-100	-	mA
T <sub>stg</sub>	storage temperature		-65	+150	°C
P <sub>tot</sub>	total power dissipation	T <sub>amb</sub> = -40 °C to +125 °C [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<sub>tot</sub> derates linearly with 12.3 mW/K above 109 °C.

For SOT360-1 (TSSOP20) package: P<sub>tot</sub> derates linearly with 10.0 mW/K above 100 °C. For SOT764-1 (DHVQFN20) package: P<sub>tot</sub> 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 <sub>CC</sub>	supply voltage		1.65	-	3.6	V
		functional	1.2	-	-	V
VI	input voltage		0	-	5.5	V
V <sub>O</sub> output voltage	output voltage	output HIGH or LOW state	0	-	V <sub>CC</sub>	V
		output 3-state	0	-	5.5	V
T <sub>amb</sub>	ambient temperature	in free air	-40	-	+125	°C
	input transition rise and fall rate	$V_{CC}$ = 1.65 V to 2.7 V	0	-	20	ns/V
		V <sub>CC</sub> = 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 °C			-40 °C to +125 °C		Unit
			Min	Тур [1]	Max	Min	Мах	
VIH	HIGH-level	V <sub>CC</sub> = 1.2 V	1.08	-	-	1.08	-	V
	input voltage	V <sub>CC</sub> = 1.65 V to 1.95 V	$0.65 \times V_{CC}$	-	-	$0.65 \times V_{CC}$	-	V
		V <sub>CC</sub> = 2.3 V to 2.7 V	1.7	-	-	1.7	-	V
		V <sub>CC</sub> = 2.7 V to 3.6 V	2.0	-	-	2.0	-	V
V <sub>IL</sub>	LOW-level	V <sub>CC</sub> = 1.2 V	-	-	0.12	-	0.12	V
	input voltage	V <sub>CC</sub> = 1.65 V to 1.95 V	-	-	0.35 × V <sub>CC</sub>	-	0.35 × V <sub>CC</sub>	V
		V <sub>CC</sub> = 2.3 V to 2.7 V	-	-	0.7	-	0.7	V
		V <sub>CC</sub> = 2.7 V to 3.6 V	-	-	0.8	-	0.8	V
V <sub>OH</sub>	HIGH-level	V <sub>I</sub> = V <sub>IH</sub> or V <sub>IL</sub>						
	output voltage	I <sub>O</sub> = -100 μA; V <sub>CC</sub> = 1.65 V to 3.6 V	V <sub>CC</sub> - 0.2	-	-	V <sub>CC</sub> - 0.3	-	V
		I <sub>O</sub> = -4 mA; V <sub>CC</sub> = 1.65 V	1.2	-	-	1.05	-	V
		I <sub>O</sub> = -8 mA; V <sub>CC</sub> = 2.3 V	1.8	-	-	1.65	-	V
		I <sub>O</sub> = -12 mA; V <sub>CC</sub> = 2.7 V	2.2	-	-	2.05	-	V
		I <sub>O</sub> = -18 mA; V <sub>CC</sub> = 3.0 V	2.4	-	-	2.25	-	V
		I <sub>O</sub> = -24 mA; V <sub>CC</sub> = 3.0 V	2.2	-	-	2.0	-	V
V <sub>OL</sub>	oL LOW-level	V <sub>I</sub> = V <sub>IH</sub> or V <sub>IL</sub>						
	output voltage	I <sub>O</sub> = 100 μA; V <sub>CC</sub> = 1.65 V to 3.6 V	-	-	0.2	-	0.3	V
		I <sub>O</sub> = 4 mA; V <sub>CC</sub> = 1.65 V	-	-	0.45	-	0.65	V
		I <sub>O</sub> = 8 mA; V <sub>CC</sub> = 2.3 V	-	-	0.6	-	0.8	V
		I <sub>O</sub> = 12 mA; V <sub>CC</sub> = 2.7 V	-	-	0.4	-	0.6	V
		I <sub>O</sub> = 24 mA; V <sub>CC</sub> = 3.0 V	-	-	0.55	-	0.8	V
I	input leakage current	V <sub>CC</sub> = 3.6 V; V <sub>I</sub> = 5.5 V or GND	-	±0.1	±5	-	±20	μA
I <sub>OZ</sub>	OFF-state output current	V <sub>I</sub> = V <sub>IH</sub> or V <sub>IL</sub> ; V <sub>CC</sub> = 3.6 V; V <sub>O</sub> = 5.5 V or GND	-	±0.1	±10	-	±20	μA
I <sub>OFF</sub>	power-off leakage current	$V_{CC} = 0 V; V_1 \text{ or } V_0 = 5.5 V$	-	0.1	±10	-	±20	μA
I <sub>CC</sub>	supply current	$V_{CC}$ = 3.6 V; $V_I$ = $V_{CC}$ or GND; $I_O$ = 0 A	-	0.1	10	-	40	μA
ΔI <sub>CC</sub>	additional supply current	per input pin; $V_{CC} = 2.7 V \text{ to } 3.6 V;$ $V_I = V_{CC} - 0.6 V; I_O = 0 A$	-	5	500	-	5000	μA
CI	input capacitance	$V_{CC} = 0 V \text{ to } 3.6 V;$ V <sub>I</sub> = GND to V <sub>CC</sub>	-	5.0	-	-	-	pF

[1] All typical values are measured at V<sub>CC</sub> = 3.3 V (unless stated otherwise) and T<sub>amb</sub> = 25 °C.

# 10. Dynamic characteristics

## **Table 7. Dynamic characteristics**

Voltages are referenced to GND (ground = 0 V). For test circuit see Fig. 8.

Symbol	Parameter	Conditions		-40 °C to +85 °C			-40 °C to +125 °C		Unit
				Min	Typ [1]	Мах	Min	Max	
t <sub>pd</sub>	propagation	1An to 1Yn; 2An to 2Yn; see Fig. 6	[2]						
	delay	V <sub>CC</sub> = 1.2 V		-	16	-	-	-	ns
		V <sub>CC</sub> = 1.65 V to 1.95 V		1.0	5.7	12.7	1.0	14.6	ns
		V <sub>CC</sub> = 2.3 V to 2.7 V		0.5	3.0	6.6	0.5	7.6	ns
		V <sub>CC</sub> = 2.7 V		1.5	3.1	7.0	1.5	9.0	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V		1.3	2.6	5.5	1.3	7.0	ns
t <sub>en</sub>	enable time	1OE to 1Yn; 2OE to 2Yn; see Fig. 7	[3]						
		V <sub>CC</sub> = 1.2 V		-	19	-	-	-	ns
		V <sub>CC</sub> = 1.65 V to 1.95 V		1.5	6.3	15.9	1.5	18.3	ns
		V <sub>CC</sub> = 2.3 V to 2.7 V		1.5	3.6	8.8	1.5	10.1	ns
		V <sub>CC</sub> = 2.7 V		1.0	3.7	8.5	1.0	11.0	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V		1.1	2.9	7.0	1.1	9.0	ns
t <sub>dis</sub>	disable time	1OE to 1Yn; 2OE to 2Yn; see Fig. 7	[4]						
		V <sub>CC</sub> = 1.2 V		-	17	-	-	-	ns
		V <sub>CC</sub> = 1.65 V to 1.95 V		2.3	4.1	9.9	2.3	11.4	ns
		V <sub>CC</sub> = 2.3 V to 2.7 V		1.0	3.4	5.6	1.0	6.5	ns
		V <sub>CC</sub> = 2.7 V		1.5	3.1	7.5	1.5	9.5	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V		1.4	2.9	6.0	1.4	7.5	ns
t <sub>sk(o)</sub>	output skew time	V <sub>CC</sub> = 3.0 V to 3.6 V	[5]	-	-	1.0	-	1.5	ns
C <sub>PD</sub>	power	per buffer; $V_I$ = GND to $V_{CC}$	[6]						
	dissipation	V <sub>CC</sub> = 1.65 V to 1.95 V		-	2.0	-		-	pF
	capacitance	V <sub>CC</sub> = 2.3 V to 2.7 V		-	5.2	-		-	pF
		V <sub>CC</sub> = 3.0 V to 3.6 V		-	8.1	-		-	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.

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

[3]  $\dot{t}_{en}$  is the same as  $t_{PZL}$  and  $t_{PZH}$ .

[4]

 $t_{dis}$  is the same as  $t_{PLZ}$  and  $t_{PHZ}$ . Skew between any two outputs of the same package switching in the same direction. This parameter is guaranteed by design. [5]

 $C_{PD}$  is used to determine the dynamic power dissipation ( $P_D$  in  $\mu$ W). [6]

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

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

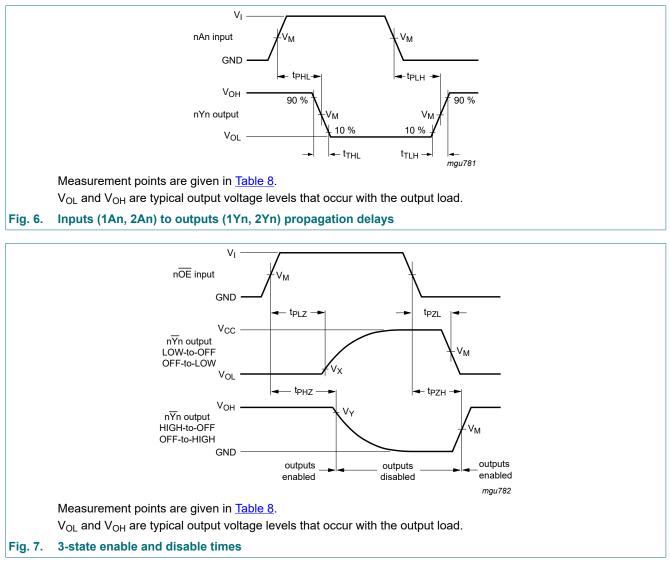
C<sub>L</sub> = output load capacitance in pF

V<sub>CC</sub> = 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

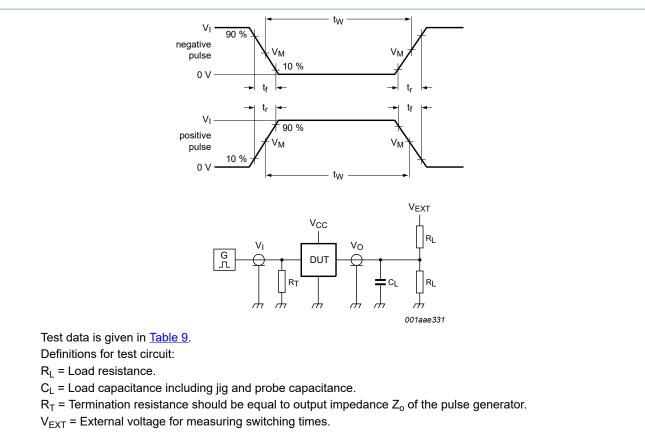


#### Table 8. Measurement points

Supply voltage	Input	Output			
V <sub>cc</sub>	V <sub>M</sub>	V <sub>M</sub>	V <sub>X</sub>	V <sub>Y</sub>	
V <sub>CC</sub> < 2.7 V	0.5 × V <sub>CC</sub>	0.5 × V <sub>CC</sub>	V <sub>OL</sub> + 0.15 V	V <sub>OH</sub> - 0.15 V	
V <sub>CC</sub> ≥ 2.7 V	1.5 V	1.5 V	V <sub>OL</sub> + 0.3 V	V <sub>OH</sub> - 0.3 V	

# 74LVC240A

## Octal buffer/line driver with 5 V tolerant inputs/outputs; inverting; 3-state

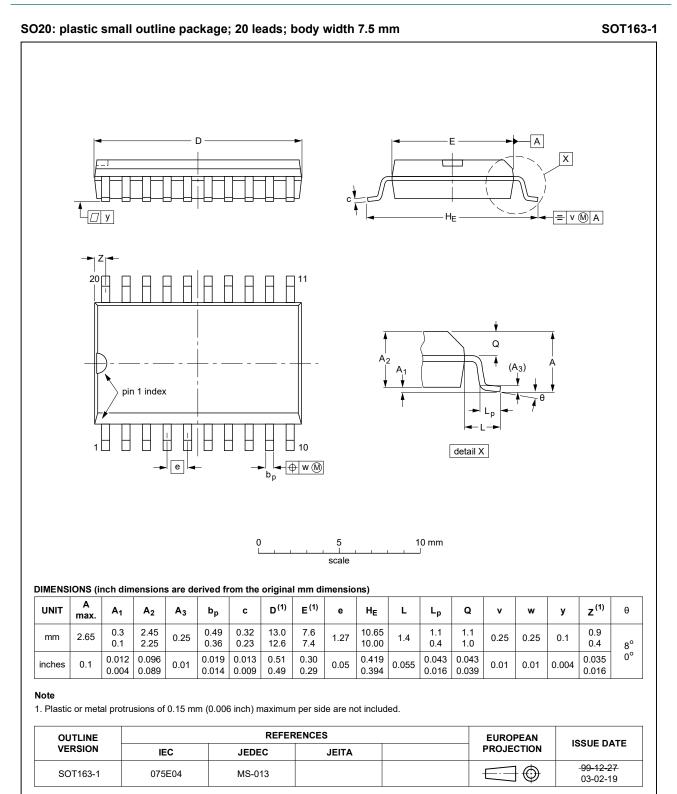


## Fig. 8. Test circuit for measuring switching times

#### Table 9. Test data

Supply voltage	Input		Load	Load		V <sub>EXT</sub>		
	VI	t <sub>r</sub> , t <sub>f</sub>	CL	RL	t <sub>PLH</sub> , t <sub>PHL</sub>	t <sub>PLZ</sub> , t <sub>PZL</sub>	t <sub>PHZ</sub> , t <sub>PZH</sub>	
1.2 V	V <sub>CC</sub>	≤ 2 ns	30 pF	1 kΩ	open	$2 \times V_{CC}$	GND	
1.65 V to 1.95 V	V <sub>CC</sub>	≤ 2 ns	30 pF	1 kΩ	open	2 × V <sub>CC</sub>	GND	
2.3 V to 2.7 V	V <sub>CC</sub>	≤ 2 ns	30 pF	500 Ω	open	2 × V <sub>CC</sub>	GND	
2.7 V	2.7 V	≤ 2.5 ns	50 pF	500 Ω	open	2 × V <sub>CC</sub>	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. 9. Package outline SOT163-1 (SO20)

74LVC240A

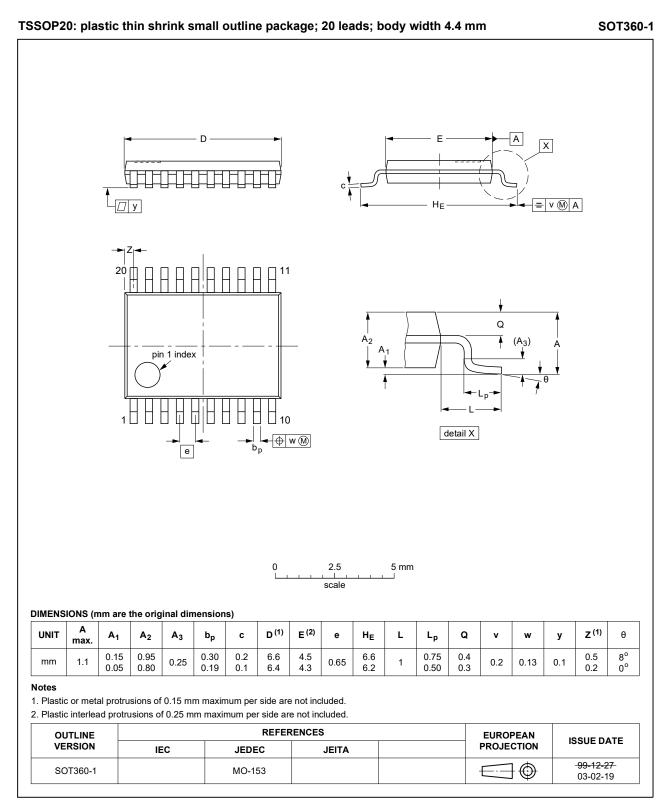


Fig. 10. Package outline SOT360-1 (TSSOP20)

<sup>74</sup>LVC240A

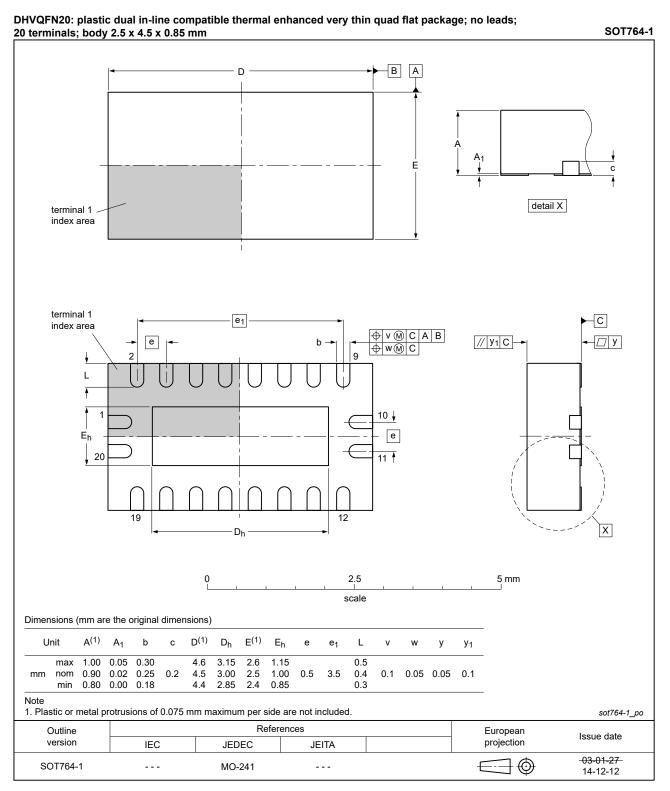


Fig. 11. Package outline SOT764-1 (DHVQFN20)

# 12. Abbreviations

Table 10. Abbreviation	Table 10. Abbreviations					
Acronym	Description					
CDM	Charged Device Model					
DUT	Device Under Test					
ESD	ElectroStatic Discharge					
HBM	Human Body Model					
MM	Machine Model					
TTL	Transistor-Transistor Logic					

# 13. Revision history

## Table 11. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes			
74LVC240 v.9	20210506	Product data sheet	-	74LVC240 v.8			
Modifications:	guidelines of Legal texts Type number <u>Section 1</u> a <u>Section 7</u> : [	Legal texts have been adapted to the new company name where appropriate.					
74LVC240 v.8	20111129	Product data sheet	-	74LVC240A v.7			
Modifications:	• <u>Table 7</u> : ma	ximum values for lower vol	tage ranges chan	ged (errata).			
74LVC240A v.7	20111027	Product data sheet	-	74LVC240A v.6			
Modifications:	guidelines o Legal texts	of this data sheet has beer of NXP Semiconductors. have been adapted to the ole 5, <u>Table 6</u> , <u>Table 7</u> and	new company nar				
74LVC240A v.6	20031202	Product specification	-	74LVC240A v.5			
74LVC240A v.5	20030514	Product specification	-	74LVC240A v.4			
74LVC240A v.4	20021220	Product specification	-	74LVC240A v.3			
74LVC240A v.3	20021002	Product specification	-	74LVC240A v.2			
74LVC240A v.2	19980520	Product specification	-	74LVC240A v.1			
74LVC240A v.1	-	Product specification	-	-			

# 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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