# 74LVT241

# 3.3 V octal buffer/line driver; 3-state

Rev. 4 — 27 March 2019

**Product data sheet** 

### 1. General description

The 74LVT241 high-performance BiCMOS device combines low static and dynamic power dissipation with high speed and high output drive.

This device is an octal buffer that is ideal for driving bus lines. The device features two output enables  $(1\overline{OE}, 2OE)$ , each controlling four of the 3-state outputs.

### 2. Features

- · 3-state buffers
- · Octal bus interface
- · Input and output interface capability to systems at 5 V supply
- · TTL input and output switching levels
- Output capability: +64 mA/-32 mA
- Latch-up protection exceeds 500 mA per JESD78 class II level A
- ESD protection:
  - HBM JESD22-A114E exceeds 2000 V
  - MM JESD22-A115-A exceeds 200 V
- · Bus-hold data inputs eliminate the need for external pull-up resistors for unused inputs
- Live insertion/extraction permitted
- · Power-up 3-state
- No bus current loading when output is tied to 5 V bus

### 3. Ordering information

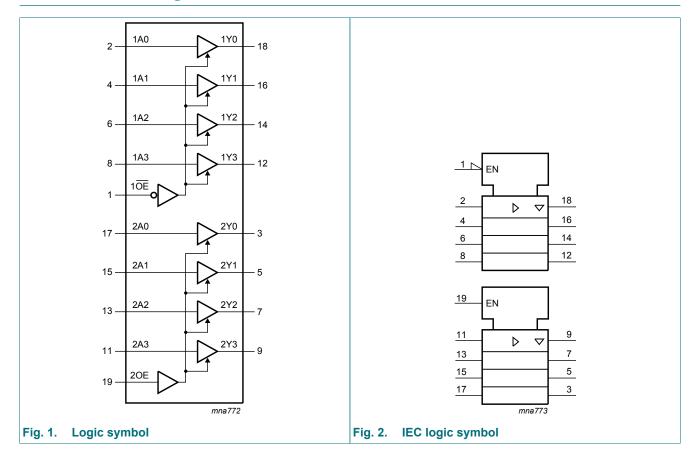
**Table 1. Ordering information** 

Type number	Package			
	Temperature range	Name	Description	Version
74LVT241D	-40 °C to +85 °C	SO20	plastic small outline package; 20 leads; body width 7.5 mm	SOT163-1
74LVT241PW	-40 °C to +85 °C	TSSOP20	plastic thin shrink small outline package; 20 leads; body width 4.4 mm	SOT360-1
74LVT241BQ	-40 °C to +85 °C	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



3.3 V octal buffer/line driver; 3-state

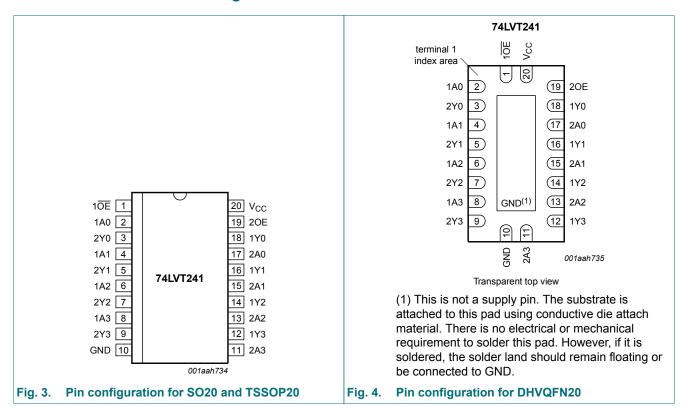
# 4. Functional diagram



3.3 V octal buffer/line driver; 3-state

### 5. Pinning information

### 5.1. Pinning



### 5.2. Pin description

Table 2. Pin description

Symbol	Pin	Description
1OE	1	output enable input (active LOW)
1A0 to 1A3	2, 4, 6, 8	data input
2A0 to 2A3	17, 15, 13, 11	data input
GND	10	ground (0 V)
1Y0 to 1Y3	18, 16, 14, 12	data output
2Y0 to 2Y3	3, 5, 7, 9	data output
2OE	19	output enable input (active HIGH)
V <sub>CC</sub>	20	supply voltage

3.3 V octal buffer/line driver; 3-state

### 6. Functional description

#### **Table 3. Function table**

H = HIGH voltage level; L = LOW voltage level; X = Don't care; Z = High impedance "OFF" state.

				Outputs		
1 <del>OE</del>	20E	1An	2An	1Yn	2Yn	
L	Н	L	L	L	L	
L	Н	Н	Н	Н	Н	
Н	L	Х	Х	Z	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 <sub>CC</sub>	supply voltage			-0.5	+4.6	V
VI	input voltage		[1]	-0.5	+7.0	V
Vo	output voltage	output in OFF or HIGH state	[1]	-0.5	+7.0	V
I <sub>IK</sub>	input clamping current	V <sub>I</sub> < 0 V		-50	-	mA
I <sub>OK</sub>	output clamping current	V <sub>O</sub> < 0 V		-50	-	mA
Io	output current	output in LOW state		-	128	mA
		output in HIGH state		-64	-	mA
T <sub>stg</sub>	storage temperature			-65	+150	°C
Tj	junction temperature		[2]	-	+150	°C
P <sub>tot</sub>	total power dissipation	T <sub>amb</sub> = -40 °C to +85 °C	[3]	-	500	mW

<sup>[1]</sup> The input and output negative voltage ratings may be exceeded if the input and output clamp current ratings are observed.

# 8. Recommended operating conditions

Table 5. Recommended operating conditions

Symbol	Parameter	Conditions	Min	Max	Unit
$V_{CC}$	supply voltage		2.7	3.6	V
VI	input voltage		0	5.5	V
I <sub>OH</sub>	HIGH-level output current		-32	-	mA
I <sub>OL</sub>	LOW-level output current		-	32	mA
		current duty cycle ≤ 50 %; f <sub>i</sub> ≥ 1 kHz	-	64	mA
T <sub>amb</sub>	ambient temperature	in free air	-40	+85	°C
Δt/ΔV	input transition rise and fall rate	output enabled	0	10	ns/V

<sup>[2]</sup> The performance capability of a high-performance integrated circuit in conjunction with its thermal environment can create junction temperatures which are detrimental to reliability. The maximum junction temperature of this integrated circuit should not exceed

<sup>[3]</sup> For SO20 package: above 70 °C derate linearly with 8 mW/K.
For TSSOP20 package: above 60 °C derate linearly with 5.5 mW/K.
For DHVQFN20 package: above 60 °C derate linearly with 4.5 mW/K.

3.3 V octal buffer/line driver; 3-state

### 9. Static characteristics

#### **Table 6. Static characteristics**

At recommended operating conditions. Voltages are referenced to GND (ground = 0 V);  $T_{amb}$  = -40 °C to +85 °C.

Symbol	Parameter	Conditions		Min	Typ[1]	Max	Unit
V <sub>IK</sub>	input clamping voltage	V <sub>CC</sub> = 2.7 V; I <sub>IK</sub> = -18 mA		-1.2	-0.9	-	V
V <sub>IH</sub>	HIGH-level input voltage			2.0	-	-	V
V <sub>IL</sub>	LOW-level input voltage			-	-	8.0	V
V <sub>OH</sub>	HIGH-level output voltage	$V_{CC}$ = 2.7 V to 3.6 V; $I_{OH}$ = -100 $\mu$ A		V <sub>CC</sub> - 0.2	V <sub>CC</sub> - 0.1	-	V
		V <sub>CC</sub> = 2.7 V; I <sub>OH</sub> = -8 mA		2.4	2.5	-	V
		V <sub>CC</sub> = 3.0 V; I <sub>OH</sub> = -32 mA		2.0	2.2	-	V
V <sub>OL</sub>	LOW-level output voltage	V <sub>CC</sub> = 2.7 V; I <sub>OL</sub> = 100 μA			0.1	0.2	V
		V <sub>CC</sub> = 2.7 V; I <sub>OL</sub> = 24 mA		-	0.3	0.5	V
		V <sub>CC</sub> = 3.0 V; I <sub>OL</sub> = 16 mA		-	0.25	0.4	V
		V <sub>CC</sub> = 3.0 V; I <sub>OL</sub> = 32 mA		-	0.3	0.5	V
		V <sub>CC</sub> = 3.0 V; I <sub>OL</sub> = 64 mA		-	0.4	0.55	V
l <sub>l</sub>	input leakage current	control and data pins					
		V <sub>CC</sub> = 0 V or 3.6 V; V <sub>I</sub> = 5.5 V		-	1	10	μA
		control pins					
		$V_{CC}$ = 3.6 V; $V_{I}$ = $V_{CC}$ or GND		-	0.1	±1	μA
		data pins	[2]				
		V <sub>CC</sub> = 3.6 V; V <sub>I</sub> = V <sub>CC</sub>		-	0.1	1	μA
		V <sub>CC</sub> = 3.6 V; V <sub>I</sub> = 0 V		-5	-1	-	μA
I <sub>OFF</sub>	power-off leakage current	$V_{CC} = 0 \text{ V}; V_{I} \text{ or } V_{O} = 0 \text{ V to } 4.5 \text{ V}$		-	1	±100	μA
I <sub>BHL</sub>	bus hold LOW current	V <sub>CC</sub> = 3.0 V; V <sub>I</sub> = 0.8 V		75	150	-	μA
I <sub>BHH</sub>	bus hold HIGH current	V <sub>CC</sub> = 3.0 V; V <sub>I</sub> = 2.0 V		-	-150	-75	μA
I <sub>BHLO</sub>	bus hold LOW overdrive current	$V_{CC} = 3.6 \text{ V}; V_I = 0 \text{ V to } 3.6 \text{ V}$	[3]	500	-	-	μA
I <sub>BHHO</sub>	bus hold HIGH overdrive current	$V_{CC} = 3.6 \text{ V}; V_1 = 0 \text{ V to } 3.6 \text{ V}$	[3]	-	-	-500	μA
I <sub>LO</sub>	output leakage current	V <sub>O</sub> = 5.5 V; V <sub>CC</sub> = 3.0 V; output HIGH		-	60	125	μΑ
I <sub>O(pu/pd)</sub>	power-up/power-down output current	$V_{CC} \le 1.2 \text{ V}; V_O = 0.5 \text{ V to } V_{CC};$ $V_I = \text{GND or } V_{CC}; 1\overline{\text{OE}}, 2\text{OE} = \text{don't care}$	[4]	-	±1	±100	μA
l <sub>OZ</sub>	OFF-state output current	V <sub>CC</sub> = 3.6 V; V <sub>O</sub> = 3.0 V		-	1	5	μΑ
		V <sub>CC</sub> = 3.6 V; V <sub>O</sub> = 0.5 V		-5	-1	-	μA
I <sub>CC</sub>	supply current	$V_{CC} = 3.6 \text{ V}; V_I = V_{CC} \text{ or GND}; I_O = 0 \text{ A}$					
		outputs HIGH		-	0.12	0.19	mA
		outputs LOW		-	3	12	mA
		outputs disabled	[5]	-	0.12	0.19	mA
Δl <sub>CC</sub>	additional supply current	per input pin; $V_{CC}$ = 3.0 V to 3.6 V; one input = $V_{CC}$ - 0.6 V other inputs at $V_{CC}$ or GND	[6]	-	0.1	0.25	mA
C <sub>I</sub>	input capacitance	1 <del>OE</del> and 2 <del>OE</del> inputs; outputs disabled; V <sub>I</sub> = 0 V or 3.0 V		-	4	-	pF

#### 3.3 V octal buffer/line driver; 3-state

Symbol	Parameter	Conditions	Min	Typ[1]	Max	Unit
C <sub>I/O</sub>	input/output capacitance	at input/output data pins, outputs disabled; $V_{I/O} = 0 \text{ V}$ or 3.0 V	-	8	-	pF

- [1] All typical values are measured at  $T_{amb}$  = 25 °C.
- [2] Unused pins at V<sub>CC</sub> or GND.
- [3] This is the bus hold overdrive current required to force the input to the opposite logic state.
- [4] This parameter is valid for any  $V_{CC}$  between 0 V and 1.2 V with a transition time of up to 10 ms. From  $V_{CC} = 1.2$  V to  $V_{CC} = 3.3$  V  $\pm 0.3$  V a transition time of 100 ms is permitted. This parameter is valid for  $T_{amb} = +25$  °C only.
- [5]  $I_{CC}$  with the outputs disabled is measured with outputs pulled to  $V_{CC}$  or GND.
- [6] This is the increase in supply current for each input at the specified voltage level other than V<sub>CC</sub> or GND.

### 10. Dynamic characteristics

#### **Table 7. Dynamic characteristics**

Voltages are referenced to GND (ground = 0 V). For test circuit see Fig. 8;  $T_{amb}$  = -40 °C to +85 °C.

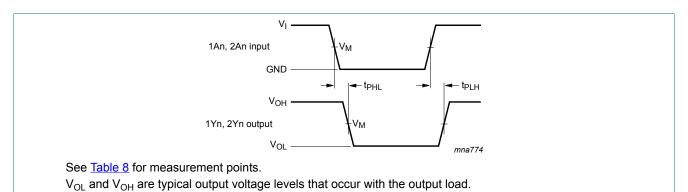
Symbol	Parameter	Conditions	Min	Typ[1]	Max	Unit
t <sub>PLH</sub>	LOW to HIGH propagation delay	1An to 1Yn, 2An to 2Yn; see Fig. 5				
		V <sub>CC</sub> = 2.7 V	-	-	4.0	ns
		V <sub>CC</sub> = 3.3 V ± 0.3 V	1.0	2.8	3.8	ns
t <sub>PHL</sub>	HIGH to LOW propagation delay	1An to 1Yn, 2An to 2Yn; see Fig. 5				
		V <sub>CC</sub> = 2.7 V	-	-	4.0	ns
		V <sub>CC</sub> = 3.3 V ± 0.3 V	1.0	2.8	3.8	ns
t <sub>PZH</sub>	OFF-state to HIGH propagation delay	1OE to 1Yn; see Fig. 6				
		V <sub>CC</sub> = 2.7 V	-	-	5.0	ns
		V <sub>CC</sub> = 3.3 V ± 0.3 V	1.0	3.2	4.4	ns
		2OE to 2Yn; see Fig. 7				
		V <sub>CC</sub> = 2.7 V	-	-	5.6	ns
		V <sub>CC</sub> = 3.3 V ± 0.3 V	1.0	3.8	5.1	ns
t <sub>PZL</sub>	OFF-state to LOW propagation delay	1OE to 1Yn; see Fig. 6				
		V <sub>CC</sub> = 2.7 V	-	-	4.9	ns
		V <sub>CC</sub> = 3.3 V ± 0.3 V	1.0	3.1	4.3	ns
		2OE to 2Yn; see Fig. 7				
		V <sub>CC</sub> = 2.7 V	-	-	5.4	ns
		V <sub>CC</sub> = 3.3 V ± 0.3 V	1.0	3.8	5.0	ns
t <sub>PHZ</sub>	HIGH to OFF-state propagation delay	1OE to 1Yn; see Fig. 6				
		V <sub>CC</sub> = 2.7 V	-	-	5.4	ns
		V <sub>CC</sub> = 3.3 V ± 0.3 V	2.0	3.6	5.2	ns
		2OE to 2Yn; see Fig. 7				
		V <sub>CC</sub> = 2.7 V	-	-	5.0	ns
		V <sub>CC</sub> = 3.3 V ± 0.3 V	1.0	3.1	4.5	ns
t <sub>PLZ</sub>	LOW to OFF-state propagation delay	1OE to 1Yn; see Fig. 6				
		V <sub>CC</sub> = 2.7 V	-	-	4.3	ns
		V <sub>CC</sub> = 3.3 V ± 0.3 V	1.6	2.9	4.2	ns
		2OE to 2Yn; see Fig. 7				
		V <sub>CC</sub> = 2.7 V	-	-	4.3	ns
		V <sub>CC</sub> = 3.3 V ± 0.3 V	1.0	2.8	4.0	ns

[1] Typical values are measured at  $T_{amb}$  = 25 °C and  $V_{CC}$  = 3.3 V.

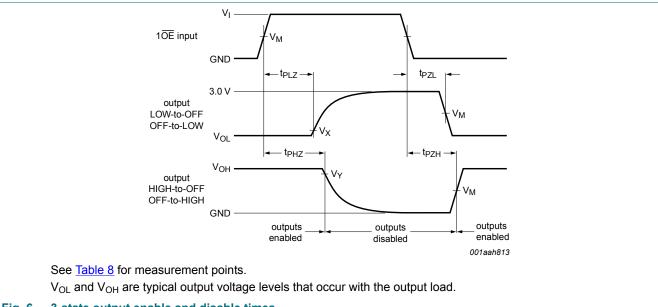
74LVT241

3.3 V octal buffer/line driver; 3-state

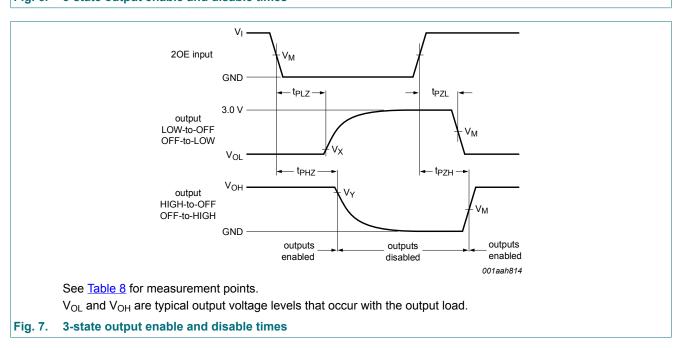
### 10.1. Waveforms and test circuit



Input (1An, 2An) to output (1Yn, 2Yn) propagation delays and output transition times Fig. 5.



3-state output enable and disable times Fig. 6.

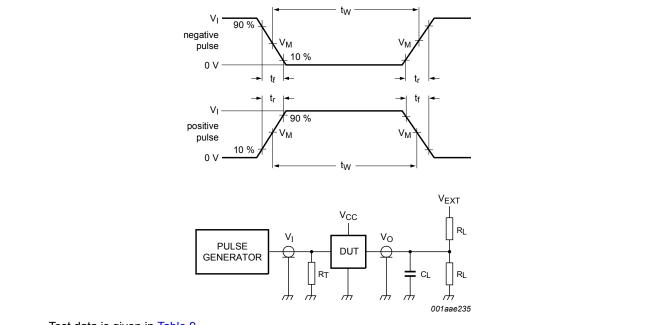


74LVT241

### 3.3 V octal buffer/line driver; 3-state

**Table 8. Measurement points** 

V <sub>CC</sub>	Input	Output				
	V <sub>M</sub>	V <sub>X</sub>	V <sub>Y</sub>	V <sub>M</sub>		
2.7 V to 3.6 V	1.5 V	V <sub>OL</sub> + 0.3 V	V <sub>OH</sub> - 0.3 V	1.5 V		



Test data is given in Table 9.

Definitions 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.

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

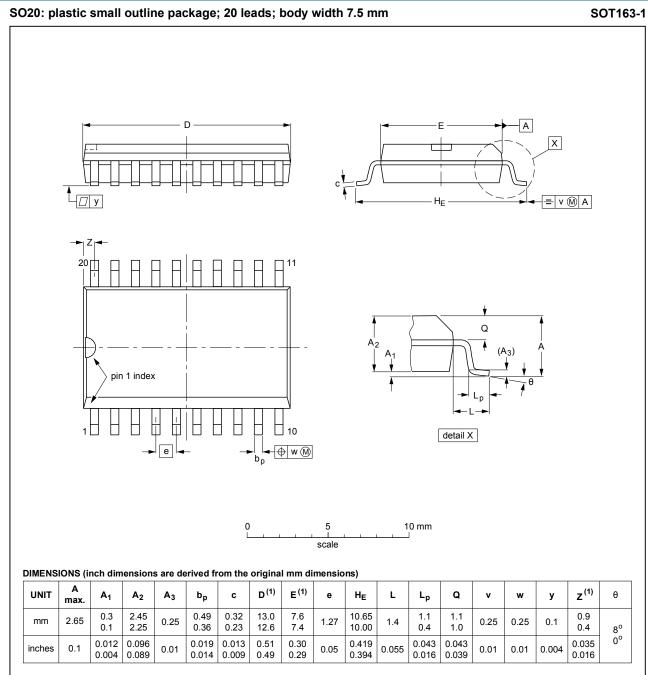
Fig. 8. Test circuit for switching times

Table 9. Test data

Input			Load		V <sub>EXT</sub>			
VI	fi	t <sub>W</sub>	t <sub>r</sub> , t <sub>f</sub>	$R_L$	CL	t <sub>PHZ</sub> , t <sub>PZH</sub>	t <sub>PLZ</sub> , t <sub>PZL</sub>	t <sub>PLH</sub> , t <sub>PHL</sub>
2.7 V	≤ 10 MHz	500 ns	≤ 2.5 ns	500 Ω	50 pF	GND	6 V	open

3.3 V octal buffer/line driver; 3-state

# 11. Package outline



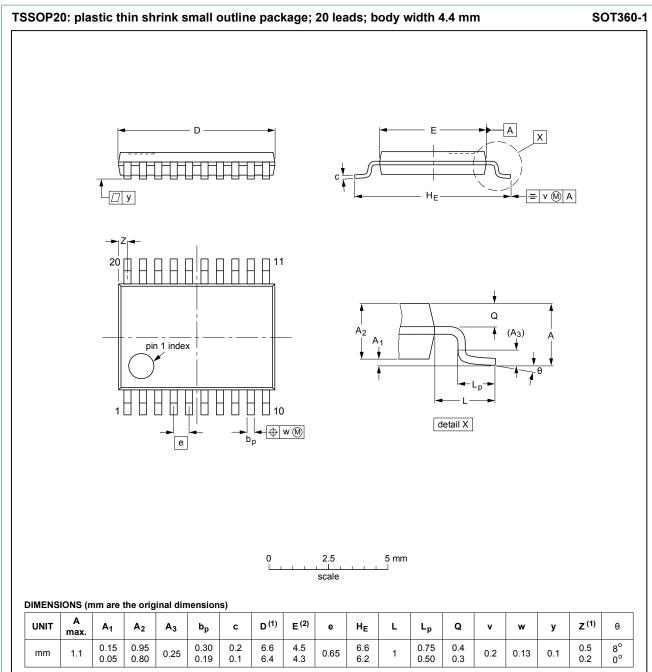
#### Note

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

OUTLINE		REFERENCES			EUROPEAN	ISSUE DATE
VERSION	IEC	JEDEC	JEITA		PROJECTION	ISSUE DATE
SOT163-1	075E04	MS-013				<del>99-12-27</del> 03-02-19

Fig. 9. Package outline SOT163-1 (SO20)

### 3.3 V octal buffer/line driver; 3-state



#### 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.

OUTLINE		REFER	ENCES	EUROPEAN	ISSUE DATE
VERSION	IEC	JEDEC	JEITA	PROJECTION	ISSUE DATE
SOT360-1		MO-153			<del>99-12-27</del> 03-02-19

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

10 / 14

### 3.3 V octal buffer/line driver; 3-state

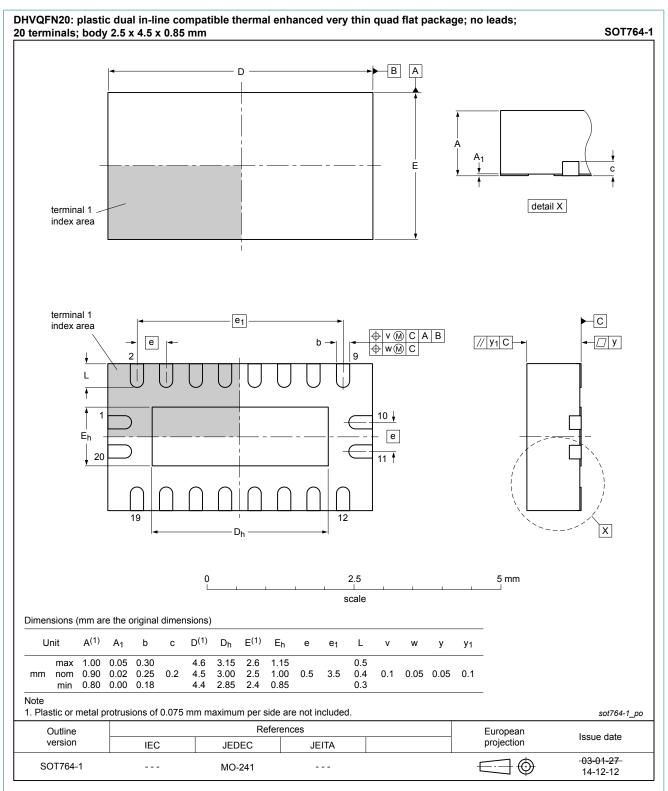


Fig. 11. Package outline SOT764-1 (DHVQFN20)

3.3 V octal buffer/line driver; 3-state

### 12. Abbreviations

#### **Table 10. Abbreviations**

Acronym	Description
BiCMOS	Bipolar Complementary Metal Oxide Semiconductor
CDM	Charged Device Model
DUT	Device Under Test
ESD	ElectroStatic Discharge
HBM	Human Body Model
TTL	Transistor-Transistor Logic

# 13. Revision history

### **Table 11. Revision history**

Document ID	Release date	Data sheet status	Change notice	Supersedes	
74LVT241 v. 3	20190327	Product data sheet		74LVT241 v. 3	
Modifications:	<ul> <li>The format of this data sheet has been redesigned to comply with the identity guidelines of Nexperia.</li> <li>Legal texts have been adapted to the new company name where appropriate.</li> <li>Fig. 11: package outline drawing SOT764-1 (DHVQFN20) updated.</li> <li>Type number 74LVT241DB (SOT339-1) removed.</li> </ul>				
74LVT241 v. 3	20080507	Product data sheet	ECN07_046	74LVT241 v. 2	
Modifications:	<ul> <li>The format of this data sheet has been redesigned to comply with the new identity guidelines of NXP Semiconductors.</li> <li>Legal texts have been adapted to the new company name where appropriate.</li> <li>DHVQFN20 package added <u>Section 3</u> and <u>Section 11</u>.</li> </ul>				
74LVT241 v. 2	19980219	Product specification	-	74LVT241 v. 1	
74LVT241 v. 1	19960529	Product specification	-	-	

#### 3.3 V octal buffer/line driver; 3-state

### 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".
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### 3.3 V octal buffer/line driver; 3-state

### **Contents**

1. General description	1
2. Features	1
3. Ordering information	1
4. Functional diagram	2
5. Pinning information	3
5.1. Pinning	3
5.2. Pin description	3
6. Functional description	4
7. Limiting values	4
8. Recommended operating conditions	4
9. Static characteristics	5
10. Dynamic characteristics	6
10.1. Waveforms and test circuit	7
11. Package outline	9
12. Abbreviations	12
13. Revision history	12
14. Legal information	

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