74LVT245B

3.3 V octal transceiver with direction pin; 3-state

Rev. 3 — 30 July 2021

Product data sheet

1. General description

The 74LVT245B is an 8-bit transceiver with 3-state outputs. The device features an output enable (\overline{OE}) and send/receive (DIR) for direction control. A HIGH on \overline{OE} causes the outputs to assume a high-impedance OFF-state. Bus hold data inputs eliminate the need for external pull-up resistors to define unused inputs

2. Features and benefits

- Wide supply voltage range from 2.7 to 3.6 V
- 3-state buffers
- Octal bidirectional bus interface
- Overvoltage tolerant inputs to 5.5 V
- · Direct interface with TTL levels
- BiCMOS high speed and output drive
- Output capability: +64 mA/-32 mA
- Latch-up protection exceeds 500 mA per JEDEC Std 17
- · Bus-hold data inputs eliminate the need for external pull-up resistors for unused inputs
- No bus current loading when output is tied to 5 V bus
- · Live insertion/extraction permitted
- Power-up 3-state
- I_{OFF} circuitry provides partial Power-down mode operation
- Complies with JEDEC standard JESD8C (2.7 V to 3.6 V)
- ESD protection:
 - HBM JESD22-A114E exceeds 2000 V
 - MM JESD22-A115-A exceeds 200 V
- Specified from -40 °C to 85 °C

3. Ordering information

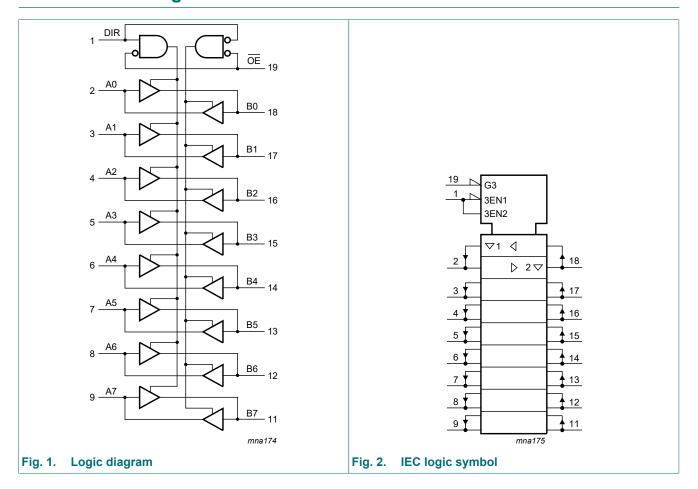
Table 1. Ordering information

Type number	Package						
	Temperature range	Name	Description	Version			
74LVT245BD	-40 °C to +85 °C	SO20	plastic small outline package; 20 leads; body width 7.5 mm	SOT163-1			
74LVT245BPW	-40 °C to +85 °C	TSSOP20	plastic thin shrink small outline package; 20 leads; body width 4.4 mm	SOT360-1			
74LVT245BBQ	-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 × 4.5 × 0.85 mm	SOT764-1			



3.3 V octal transceiver with direction pin; 3-state

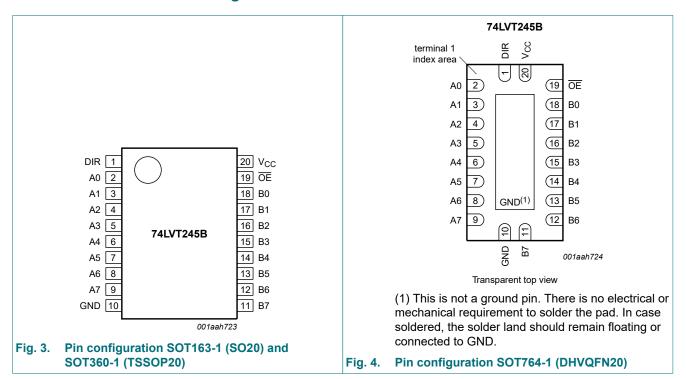
4. Functional diagram



3.3 V octal transceiver with direction pin; 3-state

5. Pinning information

5.1. Pinning



5.2. Pin description

Table 2. Pin description

Table 2. Fill description		
Symbol	Pin	Description
DIR	1	direction control
A0, A1, A2, A3, A4, A5, A6, A7	2, 3, 4, 5, 6, 7, 8, 9	data input/output
GND	10	ground (0 V)
B0, B1, B2, B3, B4, B5, B6, B7	18, 17, 16, 15, 14, 13, 12, 11	data input/output
ŌĒ	19	output enable input (active LOW)
V _{CC}	20	supply voltage

6. Functional description

Table 3. Function selection

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

Inputs		Inputs/outputs		
OE DIR		An	Bn	
L	L	An = Bn	inputs	
L	Н	inputs	Bn = An	
Н	X	Z	Z	

74LVT245B

Product data sheet

3.3 V octal transceiver with direction pin; 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	+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 _{IK}	input clamping current	V _I < 0	-50	-	mA
I _{OK}	output clamping current	V _O < 0	-50	-	mA
Io	output current	output in LOW state	-	128	mA
		output in HIGH state	-64	-	mA
T _{stg}	storage temperature		-65	+150	°C
Tj	junction temperature	[2]	-	150	°C
P _{tot}	total power dissipation	T _{amb} = -40 °C to +85 °C	-	500	mW

^[1] 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 _{OH}	HIGH-level output current		-	-32	mA
I _{OL}	LOW-level output current		-	32	mA
		current duty cycle ≤ 50 %; f _i ≥ 1 kHz	-	64	mA
T _{amb}	ambient temperature	in free air	-40	+85	°C
Δt/ΔV	input transition rise and fall rate	output enabled	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 °	Unit		
			Min	Typ [1]	Max	
V_{IK}	input clamping voltage	V _{CC} = 2.7 V; I _{IK} = -18 mA	-1.2	-0.9	-	V
V_{IH}	HIGH-level input voltage		2.0	-	-	V
V _{IL}	LOW-level input voltage		-	-	0.8	
V _{OH}	HIGH-level output voltage	V_{CC} = 2.7 V to 3.6 V; I_{OH} = -100 μ A	V _{CC} - 0.2	V _{CC} - 0.1	-	V
		V _{CC} = 2.7 V; I _{OH} = -8 mA	2.4	2.5	-	
		V _{CC} = 3.0 V; I _{OH} = -32 mA	2.0	2.2	-	V

Product data sheet

^[2] 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 150 °C.

3.3 V octal transceiver with direction pin; 3-state

Symbol	Parameter	Conditions		-40	°C to +85 °	С	Unit
				Min	Typ [1]	Max	
V _{OL}	$V_{CC} = 2.7 \text{ V; } I_{OL} = 24 \text{ mA}$ $V_{CC} = 3.0 \text{ V; } I_{OL} = 16 \text{ mA}$ $V_{CC} = 3.0 \text{ V; } I_{OL} = 32 \text{ mA}$ $V_{CC} = 3.0 \text{ V; } I_{OL} = 64 \text{ mA}$ $V_{CC} = 3.0 \text{ V; } I_{OL} = 64 \text{ mA}$ $V_{CC} = 0 \text{ V or } 3.6 \text{ V; } V_I = 5.5 \text{ V}$ $V_{CC} = 3.6 \text{ V; } V_I = V_{CC} \text{ or GND}$ $I/O \text{ data pins}$ $V_{CC} = 3.6 \text{ V; } V_I = 5.5 \text{ V}$ $V_{CC} = 3.6 \text{ V; } V_I = 5.5 \text{ V}$ $V_{CC} = 3.6 \text{ V; } V_I = 5.5 \text{ V}$	V _{CC} = 2.7 V; I _{OL} = 100 μA			0.1	0.2	V
		V _{CC} = 2.7 V; I _{OL} = 24 mA		-	0.3	0.5	V
		V _{CC} = 3.0 V; I _{OL} = 16 mA		-	0.25	0.4	V
		V _{CC} = 3.0 V; I _{OL} = 32 mA		-	0.3	0.5	V
		V _{CC} = 3.0 V; I _{OL} = 64 mA		-	0.4	0.55	V
I _I	input leakage current	$V_{CC} = 2.7 \text{ V; } I_{OL} = 24 \text{ mA}$ $V_{CC} = 3.0 \text{ V; } I_{OL} = 16 \text{ mA}$ $V_{CC} = 3.0 \text{ V; } I_{OL} = 32 \text{ mA}$ $V_{CC} = 3.0 \text{ V; } I_{OL} = 64 \text{ mA}$ $V_{CC} = 3.0 \text{ V; } I_{OL} = 64 \text{ mA}$ $control \text{ pins}$ $V_{CC} = 0 \text{ V or } 3.6 \text{ V; } V_{I} = 5.5 \text{ V}$ $V_{CC} = 3.6 \text{ V; } V_{I} = V_{CC} \text{ or GND}$ $I/O \text{ data pins} \qquad [2]$ $V_{CC} = 3.6 \text{ V; } V_{I} = 5.5 \text{ V}$ $V_{CC} = 3.6 \text{ V; } V_{I} = V_{CC}$ $V_{CC} = 3.6 \text{ V; } V_{I} = 0 \text{ V}$ $t V_{CC} = 3.6 \text{ V; } V_{I} \text{ or } V_{CC}$ $V_{CC} = 3.6 \text{ V; } V_{I} = 0 \text{ V}$ $t V_{CC} = 0 \text{ V; } V_{I} \text{ or } V_{O} = 0 \text{ V to } 4.5 \text{ V}$ $V_{O} = 5.5 \text{ V; } V_{CC} = 3.6 \text{ V; output HIGH}$ $V_{CC} \le 1.2 \text{ V; } V_{O} = 0.5 \text{ V to } V_{CC};$ $V_{I} = \text{GND or } V_{CC}; \text{ \overline{OE} = don't care}$ $V_{CC} = 3.0 \text{ V; } V_{I} = 0.8 \text{ V}$					
		V _{CC} = 0 V or 3.6 V; V _I = 5.5 V		-	1	10	μΑ
		$V_{CC} = 3.6 \text{ V}; V_I = V_{CC} \text{ or GND}$		-	±0.1	±1	μΑ
		I/O data pins	[2]				
		V _{CC} = 3.6 V; V _I = 5.5 V		-	1	20	μΑ
		V _{CC} = 3.6 V; V _I = V _{CC}		-	0.1	1	μΑ
		V _{CC} = 3.6 V; V _I = 0 V		-5	-1	-	μΑ
I _{OFF}	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	μΑ
I _{LO}	output leakage current	$V_O = 5.5 \text{ V}$; $V_{CC} = 3.6 \text{ V}$; output HIGH		-	60	125	μΑ
I _{O(pu/pd)}	power-up/power-down output current		[3]	-	15	±100	μΑ
I _{BHL}	bus hold LOW current	V _{CC} = 3.0 V; V _I = 0.8 V	[4]	75	150	-	μΑ
I _{BHH}	bus hold HIGH current	V _{CC} = 3.0 V; V _I = 2.0 V		-150	-75	-	μΑ
I _{BHLO}	bus hold LOW overdrive current	V _{CC} = 0 V to 3.0 V; V _I = 3.6 V		500	-	-	μΑ
Івнно	bus hold HIGH overdrive current	V _{CC} = 0 V to 3.0 V; V _I = 3.6 V		-	-	-500	μΑ
I _{CC}	supply current	$V_{CC} = 3.6 \text{ V}; V_I = V_{CC} \text{ or GND}; I_O = 0 \text{ A}$					
		outputs HIGH		-	0.13	0.19	mA
		outputs LOW		-	3	12	mA
		outputs disabled		-	0.13	0.19	mA
ΔI _{CC}	additional supply current	per input pin; V_{CC} = 3.0 V to 3.6 V; one input at V_{CC} - 0.6 V other inputs at V_{CC} or GND	one input at V _{CC} - 0.6 V other		0.1	0.2	mA
Cı	input capacitance	DIR and OE inputs; V _I = 0 V or 3.0 V		-	4	-	pF
C _{I/O}	input/output capacitance	at input/output data pins, outputs disabled; $V_{I/O} = 0 \text{ V}$ or 3.0 V		-	10	-	pF

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

^[2] Unused pins at V_{CC} or GND.

^[3] 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 $V_{CC} = 3.6$ V a transition time of 100 ms is permitted. This parameter is valid for $T_{amb} = +25$ °C only.

^[4] This is the bus hold overdrive current required to force the input to the opposite logic state.

^[5] This is the increase in supply current for each input at the specified voltage level other than V_{CC} or GND.

3.3 V octal transceiver with direction pin; 3-state

10. Dynamic characteristics

Table 7. Dynamic characteristics

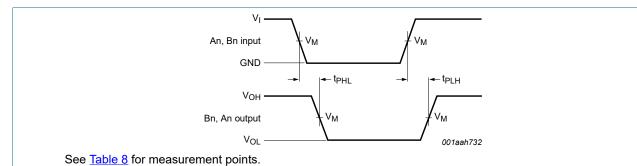
Voltages are referenced to GND (ground = 0 V). For test circuit see Fig. 7.

Symbol	Parameter	Conditions	-40	°C to +85	°C	Unit
			Min	Typ [1]	Max	
t _{PLH}	LOW to HIGH propagation delay	An to Bn or Bn to An; see Fig. 5				
		V _{CC} = 2.7 V	-	-	4.0	ns
		V _{CC} = 3.3 V ± 0.3 V	1.2	2.4	3.5	ns
t _{PHL}	HIGH to LOW propagation delay	An to Bn or Bn to An; see Fig. 5				
		V _{CC} = 2.7 V	-	-	4.0	ns
		V _{CC} = 3.3 V ± 0.3 V	1.2	2.4	3.5	ns
t _{PZH}	OFF-state to HIGH propagation delay	see <u>Fig. 6</u>				
		V _{CC} = 2.7 V	-	-	7.1	ns
		V _{CC} = 3.3 V ± 0.3 V	1.3	3.3	5.5	ns
t _{PZL}	OFF-state to LOW propagation delay	see <u>Fig. 6</u>				
		V _{CC} = 2.7 V	-	-	6.5	ns
		V _{CC} = 3.3 V ± 0.3 V	1.7	3.2	5.5	ns
t _{PHZ}	HIGH to OFF-state propagation delay	see Fig. 6				
		V _{CC} = 2.7 V	-	-	6.5	ns
		V _{CC} = 3.3 V ± 0.3 V	2.2	3.6	5.9	ns
t _{PLZ}	LOW to OFF-state propagation delay	see <u>Fig. 6</u>				
		V _{CC} = 2.7 V	-	-	5.1	ns
		V _{CC} = 3.3 V ± 0.3 V	2.2	3.4	5.0	ns

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

3.3 V octal transceiver with direction pin; 3-state

10.1. Waveforms and test circuit



 V_{OL} and V_{OH} are typical output voltage levels that occur with the output load. Fig. 5. Input (An, Bn) to output (Bn, An) propagation delays and output transition times

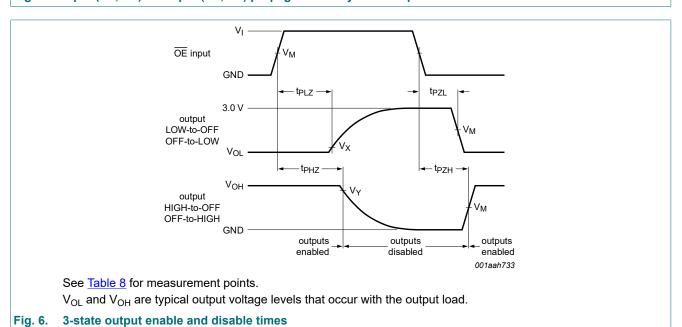
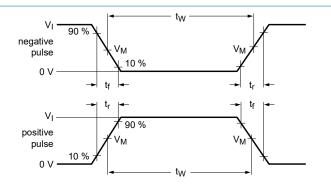
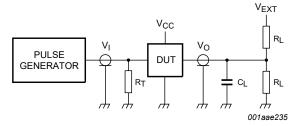


Table 8. Measurement points

V _{CC}	Input		Output		
	V _{IN} V _M		V _M	V _x	V _y
2.7 V to 3.6 V	GND to 2.7 V	1.5 V	1.5 V	V _{OL} + 0.3 V	V _{OH} - 0.3 V

3.3 V octal transceiver with direction pin; 3-state





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_{o} of the pulse generator;

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

Fig. 7. Test circuit for measuring switching times

Table 9. Test data

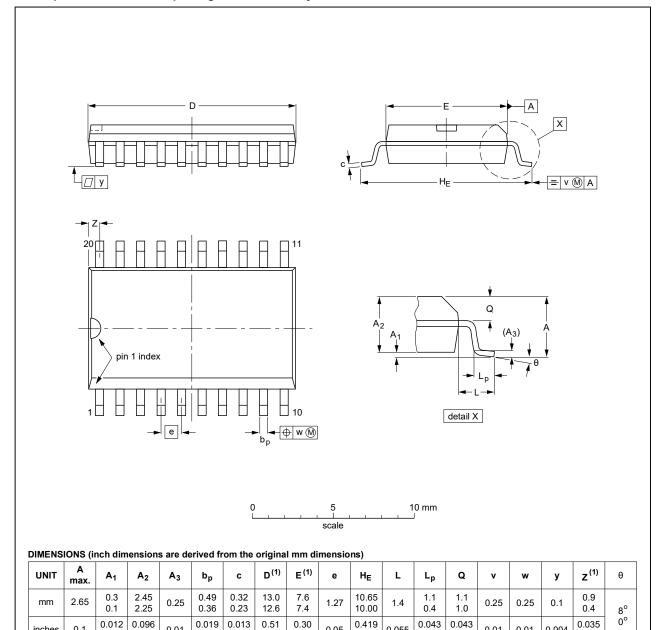
Input			Load		V _{EXT}			
V_{I}	fi	t _W	t _r , t _f	R _L	CL	t _{PHZ} , t _{PZH}	t _{PLZ} , t _{PZL}	t _{PLH} , t _{PHL}
2.7 V	≤ 10 MHz	500 ns	≤ 2.5 ns	500 Ω	50 pF	GND	6 V	open

3.3 V octal transceiver with direction pin; 3-state

11. Package outline

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

SOT163-1



inches

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

0.019

0.014

0.013

0.009

0.51

0.49

0.30

0.29

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

0.05

0.419

0.394

0.055

0.043

0.016

0.043

0.039

0.01

0.01

Fig. 8. Package outline SOT163-1 (SO20)

0.012

0.004

0.096

0.089

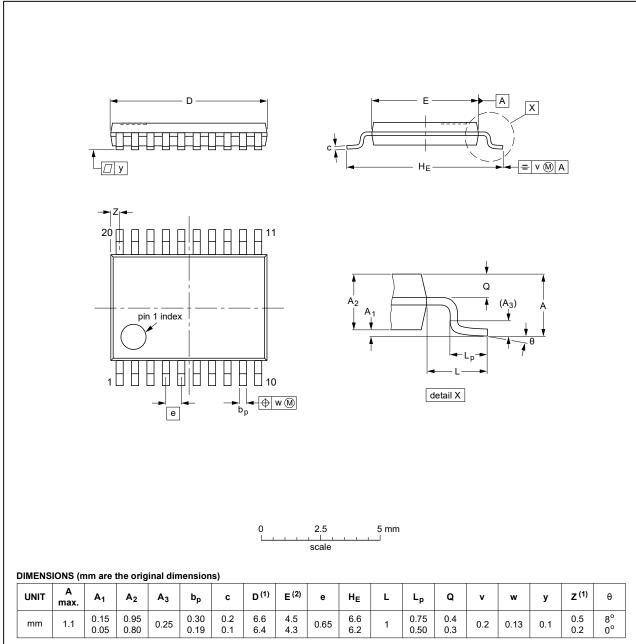
0.01

0.016

3.3 V octal transceiver with direction pin; 3-state

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

SOT360-1



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			99-12-27 03-02-19

Fig. 9. Package outline SOT360-1 (TSSOP20)

3.3 V octal transceiver with direction pin; 3-state

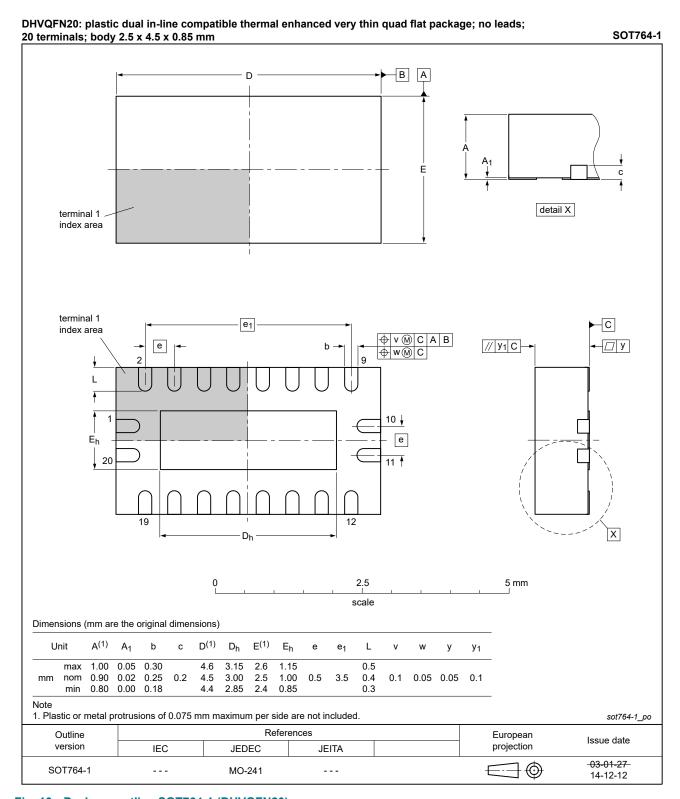


Fig. 10. Package outline SOT764-1 (DHVQFN20)

3.3 V octal transceiver with direction pin; 3-state

12. Abbreviations

Table 10. Abbreviations

Acronym	Description
BiCMOS	Bipolar Complementary Metal Oxide Semiconductor
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		
74LVT245B v.3	20210730	Product data sheet	-	74LVT245B v.2		
Modifications:	guidelines of Legal texts Type number Section 1 a Section 7: [The format of this data sheet has been redesigned to comply with the identity guidelines of Nexperia. Legal texts have been adapted to the new company name where appropriate. Type number 74LVT245BDB (SOT339-1/SSOP20) removed. Section 1 and Section 2 updated. Section 7: Derating values for P_{tot} total power dissipation removed. Fig. 10: Package outline drawing SOT764-1 (DHVQFN20) updated. 				
74LVT245B v.2	20080508	Product data sheet	ECN07_046	74LVT245B v.1		
Modifications:	guidelines of Legal texts DHVQFN20	 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. DHVQFN20 package added to <u>Section 3</u> "Ordering information" and <u>Section 11</u> "Package outline". 				
74LVT245B v.1	19990319	Product specification	-	-		

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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 transceiver with direction pin; 3-state

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74LVT245B

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3.3 V octal transceiver with direction pin; 3-state

Contents

1.	General description	1
2.	Features and benefits	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	3
7.	Limiting values	4
8.	Recommended operating conditions	4
9.	Static characteristics	4
10.	Dynamic characteristics	6
10.	Waveforms and test circuit	7
11.	Package outline	9
12.	Abbreviations1	2
13.	Revision history1	2
14.	Legal information1	3

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