74LVT573

3.3 V octal D-type transparent latch; 3-state

Rev. 9 — 30 July 2021

Product data sheet

1. General description

The 74LVT573 is an 8-bit D-type transparent latch with 3-state outputs. The device features latch enable (LE) and output enable (\overline{OE}) inputs. When LE is HIGH, data at the inputs enter the latches. In this condition the latches are transparent, a latch output will change each time its corresponding D-input changes. When LE is LOW the latches store the information that was present at the inputs a set-up time preceding the HIGH-to-LOW transition of LE. A HIGH on \overline{OE} causes the outputs to assume a high-impedance OFF-state. Operation of the \overline{OE} input does not affect the state of the latches. 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
- Inputs and outputs arranged for easy interfacing to microprocessors
- 3-state outputs for bus interfacing
- · Common output enable control
- Overvoltage tolerant inputs to 5.5 V
- · BiCMOS high speed and output drive
- Direct interface with TTL levels
- Input and output interface capability to systems at 5 V supply
- · Bus hold data inputs eliminate need for external pull-up resistors to hold unused inputs
- · Live insertion and extraction permitted
- No bus current loading when output is tied to 5 V bus
- · Power-up reset
- Power-up 3-state
- I_{OFF} circuitry provides partial Power-down mode operation
- Latch-up performance exceeds 500 mA per JESD 78 Class II Level B
- 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



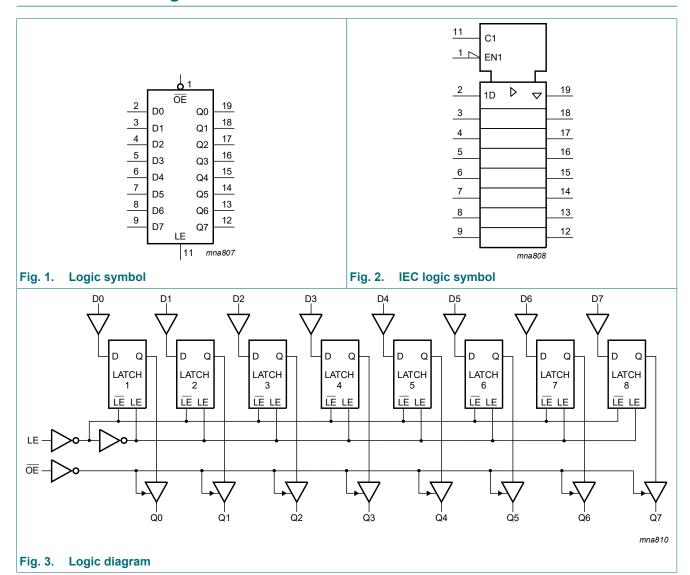
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3. Ordering information

Table 1. Ordering information

Type number	Package	Package								
	Temperature range	Name	Description	Version						
74LVT573D	-40 °C to +85 °C	SO20	plastic small outline package; 20 leads; body width 7.5 mm	SOT163-1						
74LVT573PW	-40 °C to +85 °C	TSSOP20	plastic thin shrink small outline package; 20 leads; body width 4.4 mm	SOT360-1						
74LVT573BQ	-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						

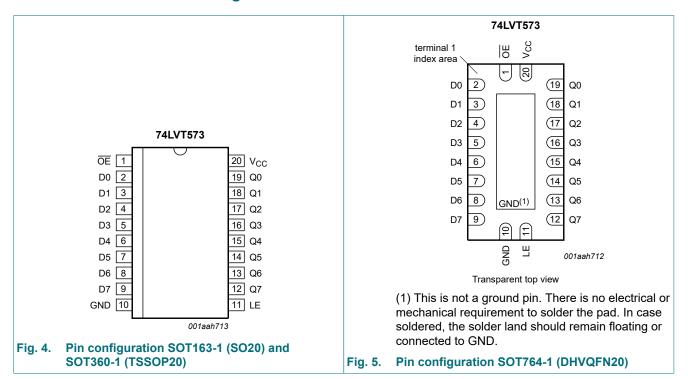
4. Functional diagram



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5. Pinning information

5.1. Pinning



5.2. Pin description

Table 2. Pin description

Table 2. I ili description		
Symbol	Pin	Description
ŌE	1	output enable input (active LOW)
D0, D1, D2, D3, D4, D5, D6, D7	2, 3, 4, 5, 6, 7, 8, 9	data input
GND	10	ground (0 V)
LE	11	latch enable (active HIGH)
Q0, Q1, Q2, Q3, Q4 ,Q5, Q6, Q7	19, 18, 17, 16, 15, 14, 13, 12	data output
V _{CC}	20	supply voltage

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6. Functional description

Table 3. Function table

 $H = HIGH \ voltage \ level; \ h = HIGH \ voltage \ level \ one \ setup \ time \ prior \ to \ the \ LOW-to-HIGH \ clock \ transition;$

L = LOW voltage level; I = LOW voltage level one setup time prior to the LOW-to-HIGH clock transition;

↓ = HIGH-to-LOW latch enable transition;

Z = high-impedance OFF-state; NC = no change; X = don't care.

Operating mode	Control OE	Control LE	Input Dn	Internal register	Output Qn
Load and read register	L	Н	L	L	L
enable			Н	Н	Н
Latch and read register	L	↓	I	L	L
			h	Н	Н
Hold	L	L	X	NC	NC
Disable outputs	ıtputs H L		X	NC	Z
		Н	Dn	Dn	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	Conditions				
V _{CC}	supply voltage			-0.5	+4.6	V	
VI	input voltage		[1]	-0.5	+7.0	V	
Vo	output voltage	output in OFF-state or HIGH-state	[1]	-0.5	+7.0	V	
I _{IK}	input clamping current	V _I < 0 V		-	-50	mA	
I _{OK}	output clamping current	V _O < 0 V		-	-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.

^[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.

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8. Recommended operating conditions

Table 5. Recommended operating conditions

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
V _{CC}	supply voltage		2.7	-	3.6	V
VI	input voltage		0	-	5.5	V
V _{IH}	HIGH-level input voltage		2.0	-	-	V
V _{IL}	LOW-level input voltage		-	-	0.8	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	outputs enabled	-	-	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	T _{amb} =	-40 °C to +	-85 °C	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 _{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
		V _{CC} = 3.0 V; I _{OH} = -32 mA	2.0	2.2	-	V
V _{OL} LOW-level output voltage		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
V _{OL(pu)}	power-up LOW-level output voltage	$V_{CC} = 3.6 \text{ V; } I_O = 1 \text{ mA;}$ [2] $V_I = \text{GND or } V_{CC}$	-	0.13	0.55	V
I _I i	input leakage current	all input pins;				
		V _{CC} = 0 V or 3.6 V; V _I = 5.5 V	-	1	10	μΑ
		control pins;				
		V _{CC} = 3.6 V; V _{CC} or GND	-	±0.1	±1	μΑ
		data pins				
		$V_{CC} = 3.6 \text{ V}; V_I = V_{CC}$ [3]	-	0.1	1	μΑ
		V _{CC} = 3.6 V; V _I = 0 V	-5	-1	-	μA
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 _{BHL}	bus hold LOW current	Dn input; $V_{CC} = 3 \text{ V}$; $V_I = 0.8 \text{ V}$ [4]	75	150	-	μA
I _{BHH}	bus hold HIGH current	Dn input; $V_{CC} = 3 \text{ V}$; $V_I = 2.0 \text{ V}$	-	-150	-75	μΑ
Івнно	bus hold HIGH overdrive current	Dn input; V _{CC} = 3.6 V; [4] V _I = 0 V to 3.6 V	-	-	500	μA
I _{BHLO}	bus hold LOW overdrive current	Dn input; V _{CC} = 3.6 V; V _I = 0 V to 3.6 V	-500	-	-	μΑ

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Symbol	Parameter	Conditions		T _{amb} = -40 °C to +85 °C				
				Min	Typ [1]	Max		
I _{LO}	output leakage current	Qn output HIGH when $V_0 = 5.5 \text{ V}$ and $V_{CC} = 3.0 \text{ V}$	-	60	125	μΑ		
I _{O(pu/pd)}	power-up/power-down output current	$V_{CC} \le 1.2 \text{ V}; V_O = 0.5 \text{ V to } V_{CC};$ $V_I = \text{GND or } V_{CC}; \overline{\text{OE}} = \text{don't care}$	[5]	-	1	±100	μΑ	
l _{oz}	OFF-state output current	V_{CC} = 3.6 V; V_I = V_{IH} or V_{IL}						
		output HIGH: V _O = 3.0 V		-	1	5	μΑ	
		output LOW: V _O = 0.5 V		-5	-1	-	μΑ	
I _{CC}	supply current	$V_{CC} = 3.6 \text{ V}; V_{I} = \text{GND or } V_{CC};$ $I_{O} = 0 \text{ A}$						
		outputs HIGH		-	0.13	0.19	mA	
		outputs LOW		-	3	12	mA	
		outputs disabled	[6]	-	0.13	0.19	mA	
ΔI _{CC}	additional supply current	per input pin; V _{CC} = 3 V to 3.6 V; one input at V _{CC} - 0.6 V and other inputs at V _{CC} or GND		-	0.1	0.2	mA	
C _I	input capacitance	V _I = 0 V or 3.0 V		-	4	-	pF	
Co	output capacitance	outputs disabled; V _O = 0 V or 3.0 V		-	8	-	pF	

- Typical values are measured at V_{CC} = 3.3 V and T_{amb} = 25 °C. For valid test results, data must not be loaded into the flip-flops (or latches) after applying power.
- [3] Unused pins at V_{CC} or GND.
- This is the bus hold overdrive current required to force the input to the opposite logic state. This parameter is valid for any V_{CC} between 0 V and 1.2 V with a transition time of up to 10 ms. [4]
- [5] From V_{CC} = 1.2 V to V_{CC} = 3.3 V ± 0.3 V a transition time of 100 μs is permitted. This parameter is valid for T_{amb} = 25 °C only.
- I_{CC} is measured with outputs pulled to V_{CC} or GND. This is the increase in supply current for each input at the specified voltage level other than V_{CC} or GND.

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10. Dynamic characteristics

Table 7. Dynamic characteristics

Voltages are referenced to ground (GND = 0 V); for test circuit see Fig. 11.

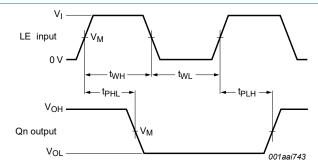
Symbol	Parameter	Conditions	T _{amb} =	-40 °C to	+85 °C	Unit
			Min	Typ [1]	Max	
t _{PLH}	LOW to HIGH propagation	LE to Qn; see Fig. 6				
	delay	V _{CC} = 3.0 V to 3.6 V	1.6	3.5	5.6	ns
		V _{CC} = 2.7 V	-	-	6.3	ns
		Dn to Qn; see Fig. 7				
		V _{CC} = 3.0 V to 3.6 V	1.0	2.5	4.2	ns
		V _{CC} = 2.7 V	-	-	4.7	ns
t _{PHL}	HIGH to LOW propagation	LE to Qn; see Fig. 6				
	delay	V _{CC} = 3.0 V to 3.6 V		4.3	6.5	ns
		V _{CC} = 2.7 V		-	7.2	ns
		Dn to Qn; see Fig. 7				
		V _{CC} = 3.0 V to 3.6 V	1.0	2.7	4.3	ns
		V _{CC} = 2.7 V	-	-	5.2	ns
t _{PZH}	OFF-state to HIGH	OE to Qn; see Fig. 8				
	propagation delay	V _{CC} = 3.0 V to 3.6 V	1.0	2.8	5.1	ns
		V _{CC} = 2.7 V	-	-	6.2	ns
t _{PZL}	OFF-state to LOW	OE to Qn; see Fig. 9				
	propagation delay	V _{CC} = 3.0 V to 3.6 V	1.3	3.3	5.5	ns
		V _{CC} = 2.7 V	-	-	6.6	ns
t _{PHZ}	HIGH to OFF-state	OE to Qn; see Fig. 8				
	propagation delay	V _{CC} = 3.0 V to 3.6 V	2.0	3.7	5.7	ns
		V _{CC} = 2.7 V	-	-	6.7	ns
t_{PLZ}	LOW to OFF-state	OE to Qn; see Fig. 9				
	propagation delay	V _{CC} = 3.0 V to 3.6 V	1.5	3.0	4.6	ns
		$V_{CC} = 2.7 \text{ V}$	-	-	5.1	ns
t _{su}	set-up time	Dn to LE; see Fig. 10 [2]				
		V _{CC} = 3.0 V to 3.6 V	0.7	-	-	ns
		V _{CC} = 2.7 V	0.6	-	-	ns
t _h	hold time	Dn to LE; see Fig. 10 [3]				
		V _{CC} = 3.0 V to 3.6 V	1.6	-	-	ns
		V _{CC} = 2.7 V	1.8	-	-	ns
t _W	pulse width	LE input HIGH; see Fig. 6 [4]				
		V _{CC} = 3.0 V to 3.6 V	3.3	-	-	ns
		V _{CC} = 2.7 V	3.3	-	-	ns

Typical values are at V_{CC} = 3.3 V and T_{amb} = 25 °C.

^[2] t_{su} is the same as t_{su(L)} and t_{su(H)}.
[3] t_h is the same as t_{h(L)} and t_{h(H)}.
[4] t_W is the same as t_{WL} and t_{WH}.

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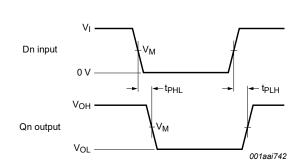
10.1. Waveforms and test circuit



Measurement points are given in Table 8.

 $\mbox{V}_{\mbox{OL}}$ and $\mbox{V}_{\mbox{OH}}$ are typical voltage output levels that occur with the output load.

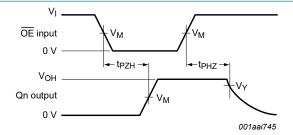
Fig. 6. Propagation delays latch enable input (LE) to output (Qn), and latch enable (LE) pulse width



Measurement points are given in <u>Table 8</u>.

 V_{OL} and V_{OH} are typical voltage output levels that occur with the output load.

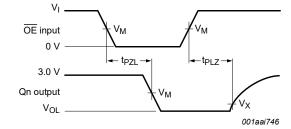
Fig. 7. Propagation delay data input (Dn) to output (Qn)



Measurement points are given in Table 8.

 $\ensuremath{V_{OH}}$ is a typical voltage output level that occurs with the output load.

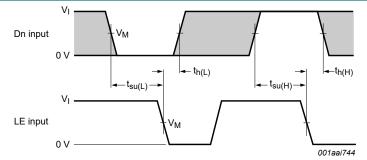
Fig. 8. Output enable time to HIGH-state and output disable time from HIGH-state



Measurement points are given in Table 8.

 $\ensuremath{V_{\text{OL}}}$ is a typical voltage output level that occurs with the output load.

Fig. 9. Output enable time to LOW-state and output disable time from LOW-state



Measurement points are given in Table 8.

The shaded areas indicate when the input is permitted to change for predictable output performance.

Fig. 10. Data setup and hold times for data (Dn) and latch enable (LE) inputs

Table 8. Measurement points

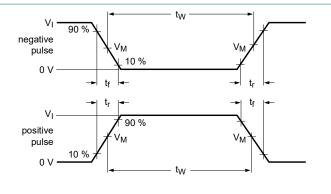
Input	Output		
V_{M}	V _M	V _X	V_{Y}
1.5 V	1.5 V	V _{OL} + 0.3 V	V _{OH} - 0.3 V

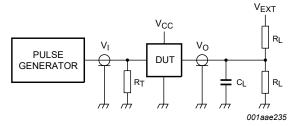
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Test data is given in Table 9.

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} = Test voltage for switching times.

Fig. 11. Test circuit for measuring switching times

Table 9. Test data

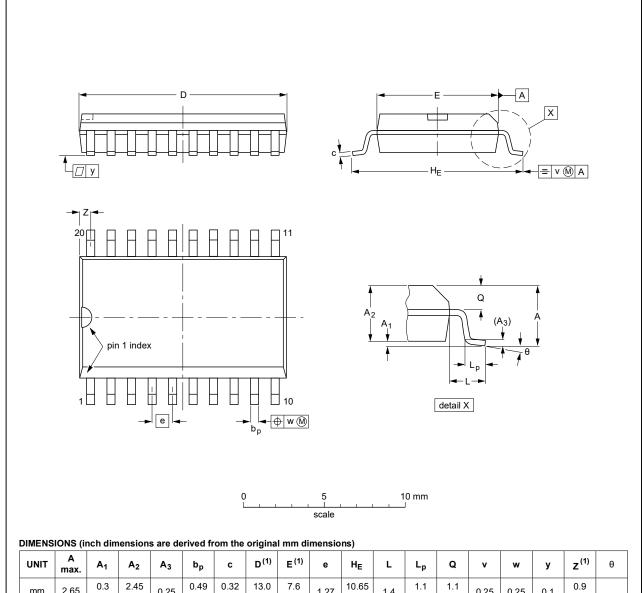
Input				Load		V _{EXT}			
V_{l} f_{i} t_{W} t_{r}, t_{f}		CL	R_L	t _{PHZ} , t _{PZH} t _{PLZ} , t _{PZL} t _{PL}		t _{PLH} , t _{PHL}			
2.7 V	≤ 10 MHz	500 ns	≤ 2.5 ns	50 pF	500 Ω	GND	6 V	open	

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11. Package outline

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

SOT163-1



UNIT	A max.	A ₁	A ₂	A ₃	bp	С	D ⁽¹⁾	E ⁽¹⁾	е	HE	L	Lp	Q	v	w	у	z ⁽¹⁾	θ
mm	2.65	0.3 0.1	2.45 2.25	0.25	0.49 0.36	0.32 0.23	13.0 12.6	7.6 7.4	1.27	10.65 10.00	1.4	1.1 0.4	1.1 1.0	0.25	0.25	0.1	0.9 0.4	8°
inches	0.1	0.012 0.004	0.096 0.089	0.01	0.019 0.014	0.013 0.009	0.51 0.49	0.30 0.29	0.05	0.419 0.394	0.055	0.043 0.016	0.043 0.039	0.01	0.01	0.004	0.035 0.016	0°

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

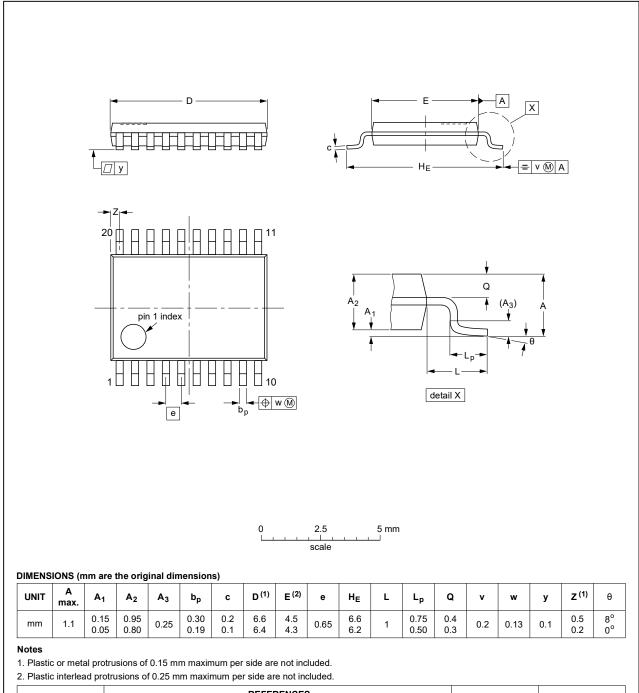
OUTLINE VERSION		REFER	EUROPEAN	ISSUE DATE		
	IEC	JEDEC	JEITA		PROJECTION	ISSUE DATE
SOT163-1	075E04	MS-013				99-12-27 03-02-19

Fig. 12. Package outline SOT163-1 (SO20)

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

SOT360-1



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

Fig. 13. Package outline SOT360-1 (TSSOP20)

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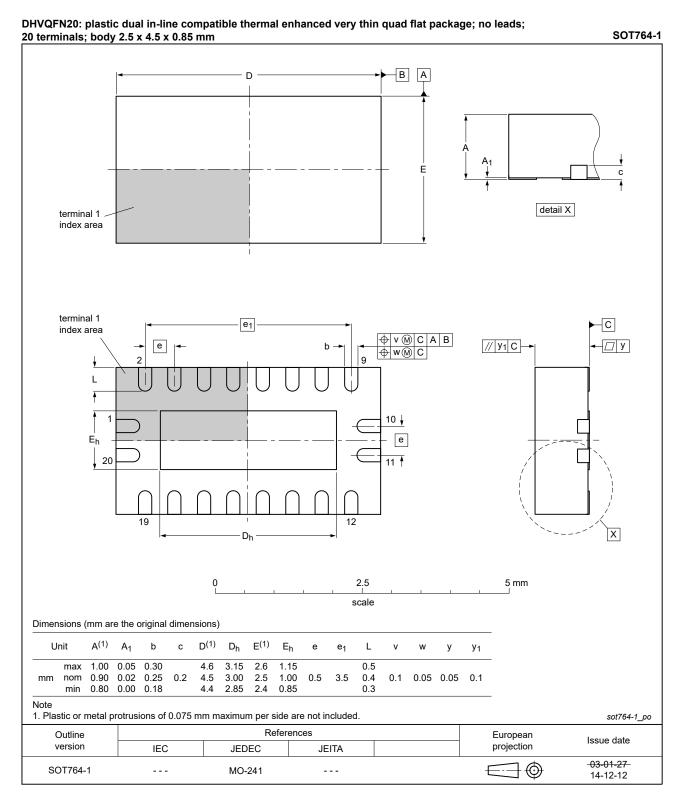


Fig. 14. Package outline SOT764-1 (DHVQFN20)

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12. Abbreviations

Table 10. Abbreviations

Acronym	Description	
BiCMOS	Bipolar Complementary Metal Oxide Semiconductor	
DUT	Device Under Test	
ESD	ElectroStatic Discharge	
НВМ	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		
74LVT573 v.9	20210730	Product data sheet	-	74LVT573 v.8		
Modifications:	guidelines of Legal texts Type numb Section 1 a Section 7:	Section 7: Derating values for P _{tot} total power dissipation removed. Section 7: Derating values for P _{tot} total power dissipation removed.				
74LVT573 v.8	20111122	Product data sheet	-	74LVT573 v.7		
Modifications:	Legal page	Legal pages updated.				
74LVT573 v.7	20110912	Product data sheet	-	74LVT573 v.6		
74LVT573 v.6	20110727	Product data sheet	-	74LVT573 v.5		
74LVT573 v.5	20110629	Product data sheet	-	74LVT573 v.4		
74LVT573 v.4	20080915	Product data sheet	-	74LVT573 v.3		
74LVT573 v.3	20011217	Product data sheet	-	74LVT573 v.2		
74LVT573 v.2	19980219	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".
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3.3 V octal D-type transparent latch; 3-state

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