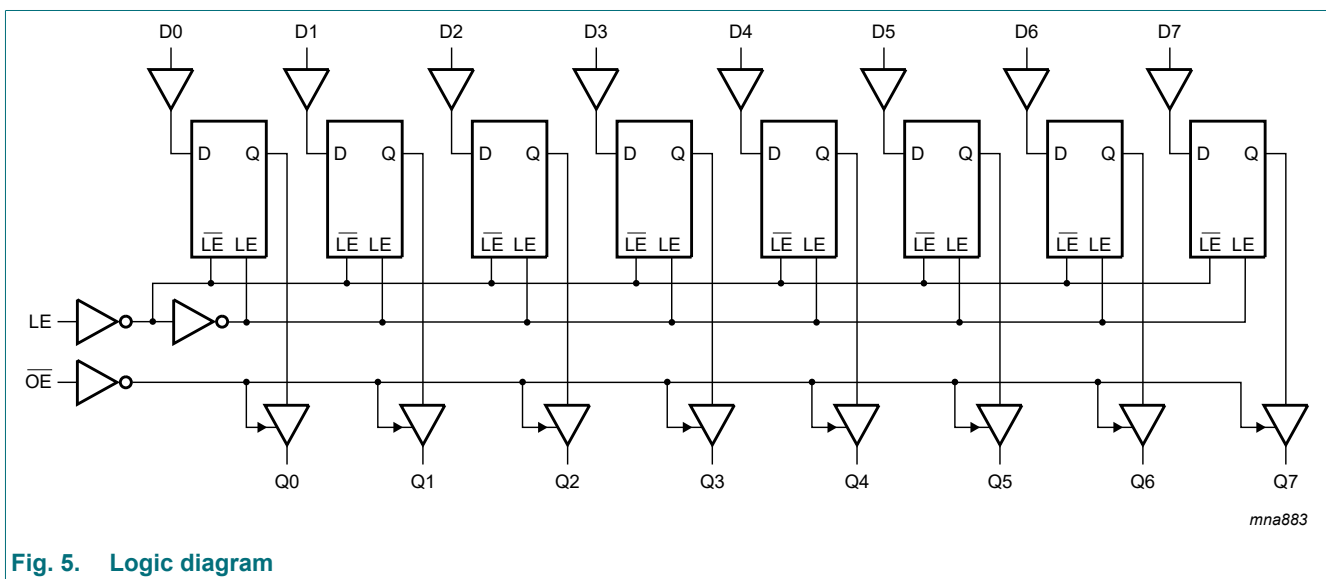
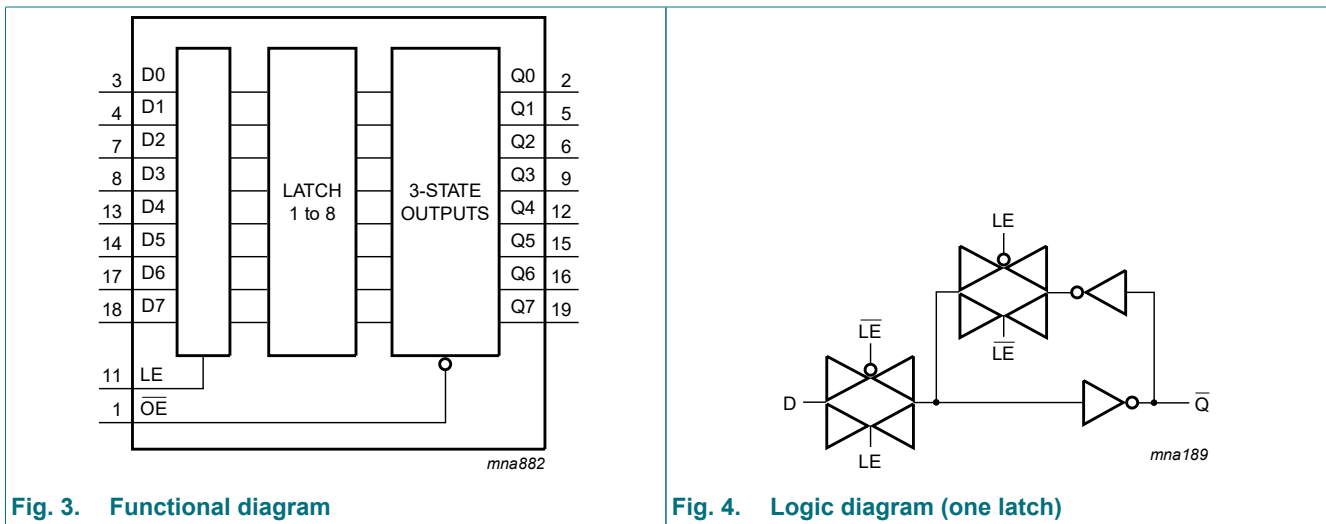
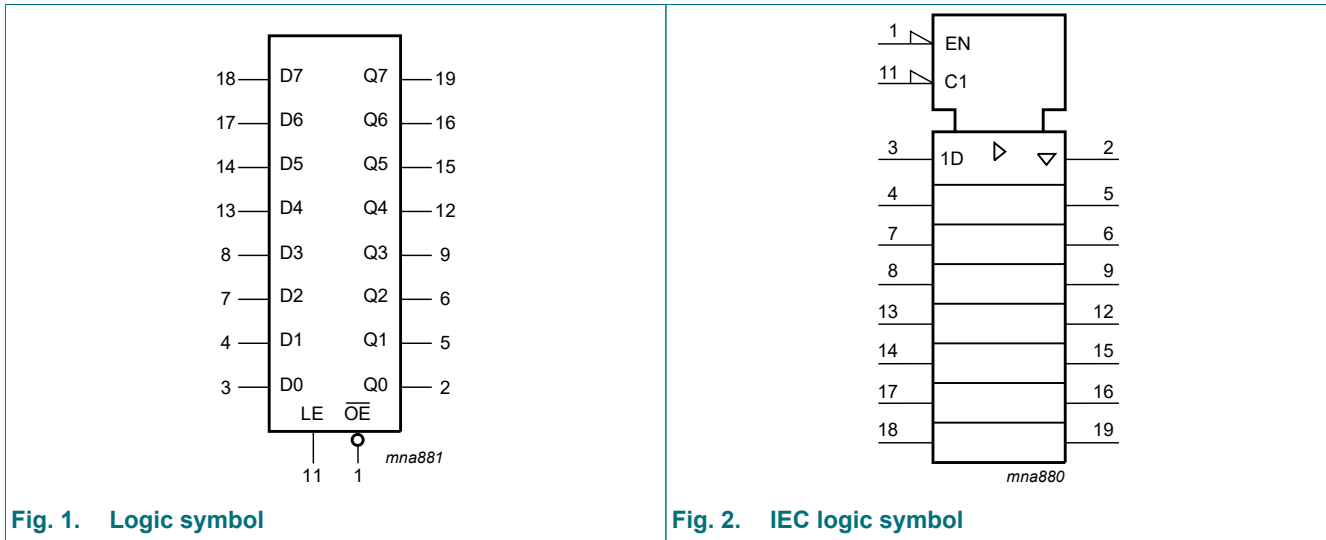
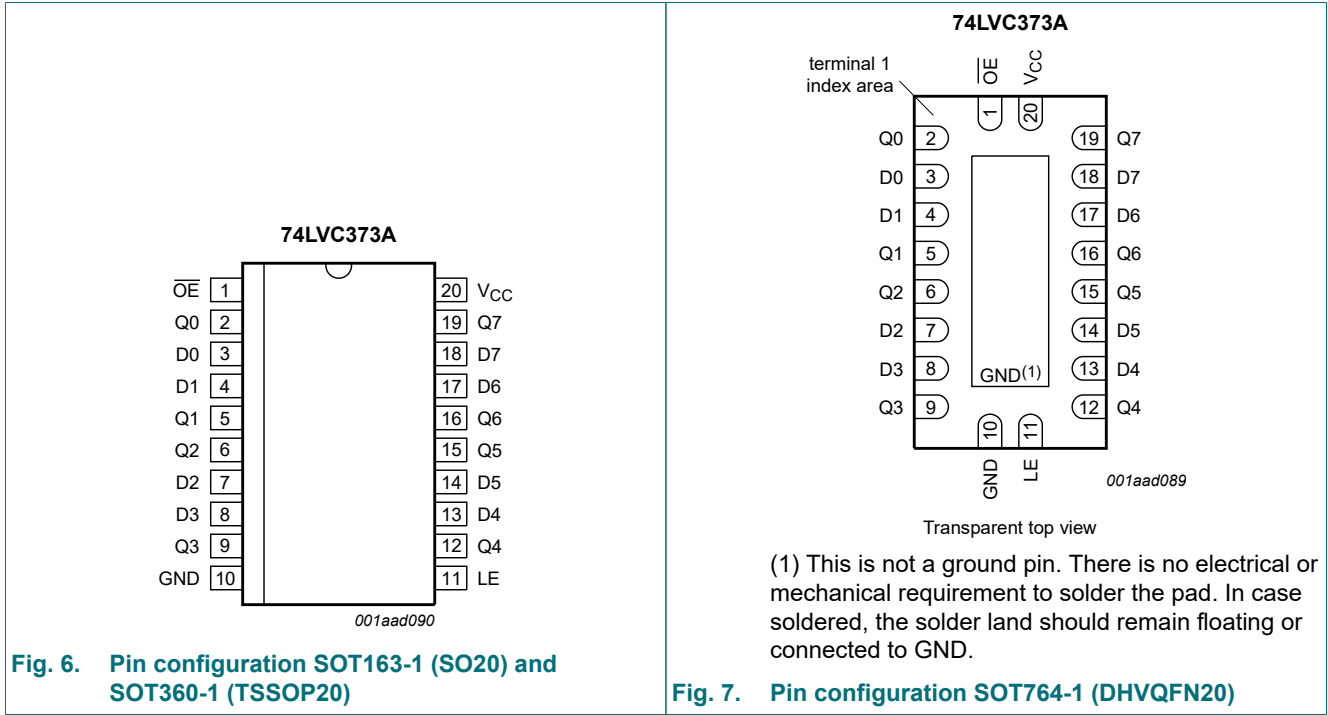


4. Functional diagram



5. Pinning information

5.1. Pinning



5.2. Pin description

Table 2. Pin description

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

6. Functional description

Table 3. Functional table

*H = HIGH voltage level; h = HIGH voltage level one set-up time prior to the HIGH-to-LOW LE transition;
L = LOW voltage level; l = LOW voltage level one set-up time prior to the HIGH-to-LOW LE transition;
Z = High-impedance OFF-state.*

Operating modes	Input			Internal latch	Output
	OE	LE	Dn		Qn
Enable and read register (transparent mode)	L	H	L	L	L
	L	H	H	H	H
Latch and read register	L	L	l	L	L
	L	L	h	H	H
Latch register and disable outputs	H	L	l	L	Z
	H	L	h	H	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	$V_I < 0$	-50	-	mA
V_I	input voltage	[1]	-0.5	+6.5	V
I_{OK}	output clamping current	$V_O > V_{CC}$ or $V_O < 0$	-	± 50	mA
V_O	output voltage	HIGH or LOW-state	[2]	$V_{CC} + 0.5$	V
		3-state	[2]	+6.5	V
I_O	output current	$V_O = 0\text{ V to }V_{CC}$	-	± 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	$T_{amb} = -40\text{ °C to }+125\text{ °C}$ [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_{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.

For SOT764-1 (DHFQFN20) 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	Typ	Max	Unit
V _{CC}	supply voltage		1.65	-	3.6	V
		functional	1.2	-	-	V
V _I	input voltage		0	-	5.5	V
V _O	output voltage	HIGH or LOW-state	0	-	V _{CC}	V
		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} = 1.65 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 °C			-40 °C to +125 °C		Unit
			Min	Typ [1]	Max	Min	Max	
V _{IH}	HIGH-level input voltage	V _{CC} = 1.2 V	1.08	-	-	1.08	-	V
		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 voltage	V _{CC} = 1.2 V	-	-	0.12	-	0.12	V
		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 output voltage	V _I = V _{IH} or V _{IL}						
		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 voltage	V _I = V _{IH} or V _{IL}						
		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		
I _I	input leakage current	V _{CC} = 3.6 V; V _I = 5.5 V or GND	-	±0.1	±5	-	±20	μA
I _{OZ}	OFF-state output current	V _I = V _{IH} or V _{IL} ; V _{CC} = 3.6 V; V _O = 5.5 V or GND;	-	±0.1	±5	-	±20	μA

Octal D-type transparent latch with 5 V tolerant inputs/outputs; 3-state

Symbol	Parameter	Conditions	-40 °C to +85 °C			-40 °C to +125 °C		Unit
			Min	Typ [1]	Max	Min	Max	
I_{OFF}	power-off leakage supply	$V_{CC} = 0\text{ V}$; V_I or $V_O = 5.5\text{ V}$	-	± 0.1	± 10	-	± 20	μA
I_{CC}	supply current	$V_{CC} = 3.6\text{ V}$; $V_I = V_{CC}$ or GND; $I_O = 0\text{ A}$	-	0.1	10	-	40	μA
ΔI_{CC}	additional supply current	per input pin; $V_{CC} = 2.7\text{ V}$ to 3.6 V ; $V_I = V_{CC} - 0.6\text{ V}$; $I_O = 0\text{ A}$	-	5	500	-	5000	μA
C_I	input capacitance	$V_{CC} = 0\text{ V}$ to 3.6 V ; $V_I = \text{GND}$ to V_{CC}	-	5.0	-	-	-	pF

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

10. Dynamic characteristics

Table 7. Dynamic characteristics

Voltages are referenced to GND (ground = 0 V). For test circuit see Fig. 12.

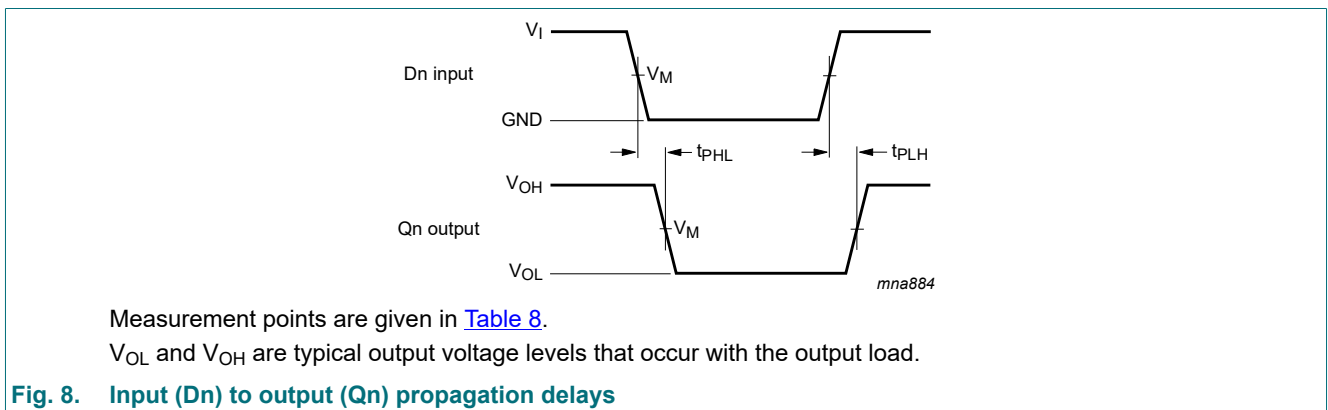
Symbol	Parameter	Conditions	-40 °C to +85 °C			-40 °C to +125 °C		Unit
			Min	Typ[1]	Max	Min	Max	
t_{pd}	propagation delay	Dn to Qn; see Fig. 8 [2]						
		$V_{CC} = 1.2\text{ V}$	-	14	-	-	-	ns
		$V_{CC} = 1.65\text{ V}$ to 1.95 V	1.5	6.5	15.8	1.5	18.2	ns
		$V_{CC} = 2.3\text{ V}$ to 2.7 V	1.0	3.4	8.2	1.0	9.4	ns
		$V_{CC} = 2.7\text{ V}$	1.5	3.4	7.8	1.5	10.0	ns
		$V_{CC} = 3.0\text{ V}$ to 3.6 V	1.5	2.9	6.8	1.5	8.5	ns
		LE to Qn; see Fig. 9 [2]						
		$V_{CC} = 1.2\text{ V}$	-	16	-	-	-	ns
		$V_{CC} = 1.65\text{ V}$ to 1.95 V	2.2	7.3	16.8	2.2	19.3	ns
		$V_{CC} = 2.3\text{ V}$ to 2.7 V	1.5	3.9	8.6	1.5	10.0	ns
		$V_{CC} = 2.7\text{ V}$	1.5	3.5	8.2	1.5	10.5	ns
		$V_{CC} = 3.0\text{ V}$ to 3.6 V	1.5	3.3	7.2	1.5	9.0	ns
t_{en}	enable time	\overline{OE} to Qn; see Fig. 10 [2]						
		$V_{CC} = 1.2\text{ V}$	-	17	-	-	-	ns
		$V_{CC} = 1.65\text{ V}$ to 1.95 V	1.5	6.8	17.6	1.5	20.3	ns
		$V_{CC} = 2.3\text{ V}$ to 2.7 V	1.5	3.8	9.7	1.5	11.2	ns
		$V_{CC} = 2.7\text{ V}$	1.5	3.8	8.7	1.5	11.0	ns
		$V_{CC} = 3.0\text{ V}$ to 3.6 V	1.5	3.1	7.7	1.5	10.0	ns
t_{dis}	disable time	\overline{OE} to Qn; see Fig. 10 [2]						
		$V_{CC} = 1.2\text{ V}$	-	8.0	-	-	-	ns
		$V_{CC} = 1.65\text{ V}$ to 1.95 V	2.3	4.3	10.3	2.3	11.9	ns
		$V_{CC} = 2.3\text{ V}$ to 2.7 V	1.0	2.4	5.8	1.0	6.8	ns
		$V_{CC} = 2.7\text{ V}$	1.5	3.2	7.1	1.5	9.0	ns
		$V_{CC} = 3.0\text{ V}$ to 3.6 V	1.5	3.0	6.1	1.5	8.0	ns

Octal D-type transparent latch with 5 V tolerant inputs/outputs; 3-state

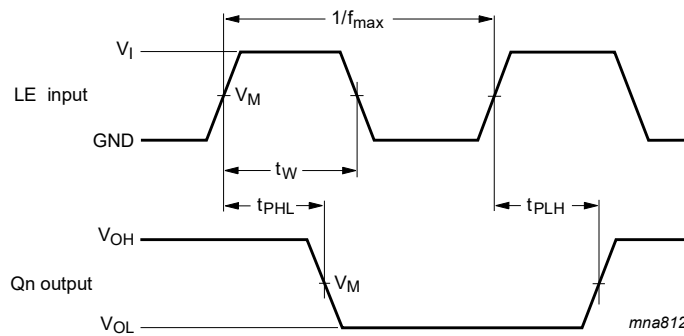
Symbol	Parameter	Conditions	-40 °C to +85 °C			-40 °C to +125 °C		Unit
			Min	Typ[1]	Max	Min	Max	
t _w	pulse width	LE HIGH; see Fig. 9						
		V _{CC} = 1.65 V to 1.95 V	5.0	-	-	5.0	-	ns
		V _{CC} = 2.3 V to 2.7 V	4.0	-	-	4.0	-	ns
		V _{CC} = 2.7 V	3.0	-	-	3.0	-	ns
		V _{CC} = 3.0 V to 3.6 V	3.0	1.5	-	3.0	-	ns
t _{su}	set-up time	Dn to LE; see Fig. 11						
		V _{CC} = 1.65 V to 1.95 V	4.0	-	-	4.0	-	ns
		V _{CC} = 2.3 V to 2.7 V	3.0	-	-	3.0	-	ns
		V _{CC} = 2.7 V	2.0	-	-	2.0	-	ns
		V _{CC} = 3.0 V to 3.6 V	2.0	0.0	-	2.0	-	ns
t _h	hold time	Dn to LE; see Fig. 11						
		V _{CC} = 1.65 V to 1.95 V	3.0	-	-	3.0	-	ns
		V _{CC} = 2.3 V to 2.7 V	2.0	-	-	2.0	-	ns
		V _{CC} = 2.7 V	1.5	-	-	1.5	-	ns
		V _{CC} = 3.0 V to 3.6 V	1.5	0.3	-	1.5	-	ns
t _{sk(0)}	output skew time	V _{CC} = 3.0 V to 3.6 V [3]	-	-	1.0	-	1.5	ns
C _{PD}	power dissipation capacitance	per latch; V _I = GND to V _{CC} [4]						
		V _{CC} = 1.65 V to 1.95 V	-	16.6	-	-	-	pF
		V _{CC} = 2.3 V to 2.7 V	-	19.2	-	-	-	pF
		V _{CC} = 3.0 V to 3.6 V	-	21.6	-	-	-	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}.
t_{en} is the same as t_{PZL} and t_{PZH}.
t_{dis} is the same as t_{PLZ} and t_{PHZ}.
- [3] Skew between any two outputs of the same package switching in the same direction. This parameter is guaranteed by design.
- [4] C_{PD} is used to determine the dynamic power dissipation (P_D in μW).
 $P_D = C_{PD} \times V_{CC}^2 \times f_i \times N + \Sigma(C_L \times V_{CC}^2 \times f_o)$ where:
 f_i = input frequency in MHz; f_o = output frequency in MHz
 C_L = output load capacitance in pF
 V_{CC} = supply voltage in Volts
 N = number of inputs switching
 Σ(C_L × V_{CC}² × f_o) = sum of the outputs

10.1. Waveforms and test circuit



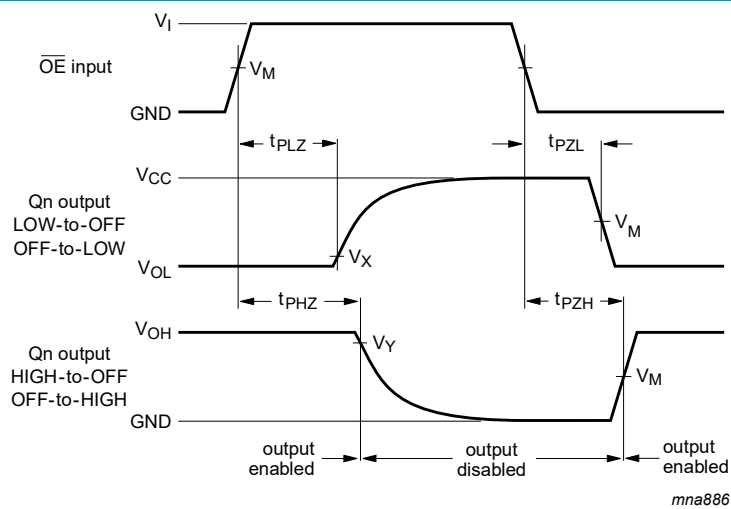
Octal D-type transparent latch with 5 V tolerant inputs/outputs; 3-state



Measurement points are given in [Table 8](#).

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

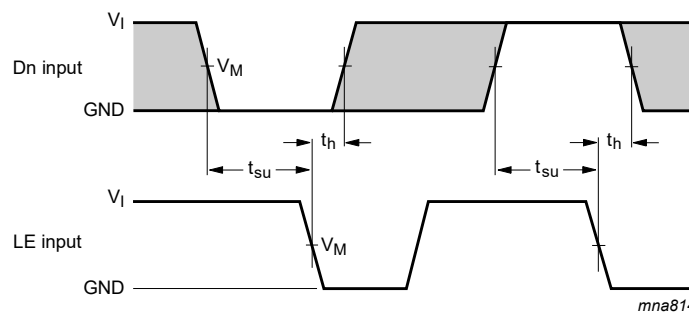
Fig. 9. Latch Enable input (LE) pulse width, the latch enable input to output (Qn) propagation delays



Measurement points are given in [Table 8](#).

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

Fig. 10. 3-state enable and disable times



Measurement points are given in [Table 8](#).

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

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

Fig. 11. Data set-up and hold times for the Dn input to the LE input

Octal D-type transparent latch with 5 V tolerant inputs/outputs; 3-state

Table 8. Measurement points

Supply voltage	Input		Output		
	V_I	V_M	V_M	V_X	V_Y
1.2 V	V_{CC}	$0.5 \times V_{CC}$	$0.5 \times V_{CC}$	$V_{OL} + 0.15 \text{ V}$	$V_{OH} - 0.15 \text{ V}$
1.65 V to 1.95 V	V_{CC}	$0.5 \times V_{CC}$	$0.5 \times V_{CC}$	$V_{OL} + 0.15 \text{ V}$	$V_{OH} - 0.15 \text{ V}$
2.3 V to 2.7 V	V_{CC}	$0.5 \times V_{CC}$	$0.5 \times V_{CC}$	$V_{OL} + 0.15 \text{ V}$	$V_{OH} - 0.15 \text{ V}$
2.7 V	2.7 V	1.5 V	1.5 V	$V_{OL} + 0.3 \text{ V}$	$V_{OH} - 0.3 \text{ V}$
3.0 V to 3.6 V	2.7 V	1.5 V	1.5 V	$V_{OL} + 0.3 \text{ V}$	$V_{OH} - 0.3 \text{ V}$

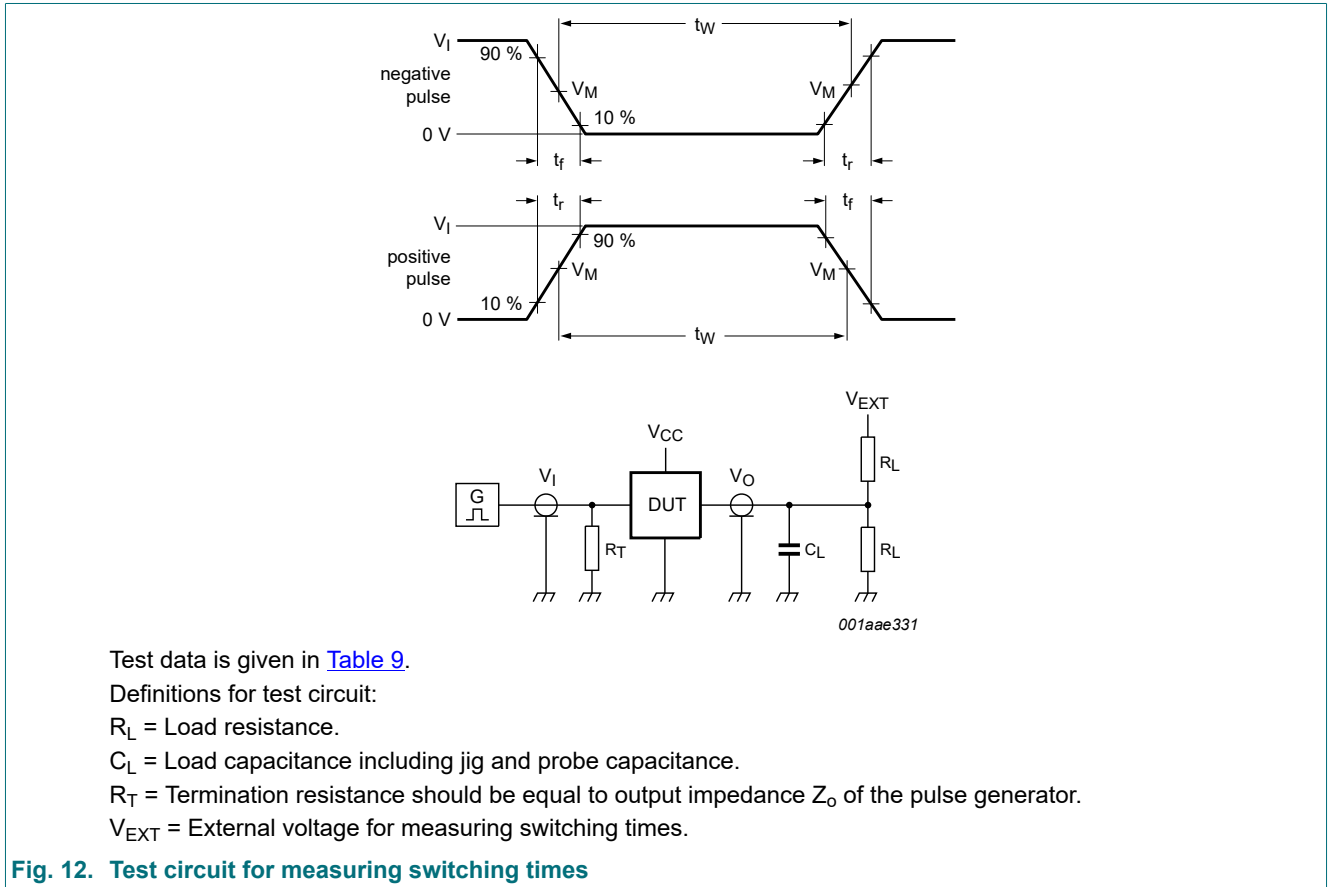


Fig. 12. Test circuit for measuring switching times

Table 9. Test data

Supply voltage	Input		Load		V_{EXT}		
	V_I	t_r, t_f	C_L	R_L	t_{PLH}, t_{PHL}	t_{PLZ}, t_{PZL}	t_{PHZ}, t_{PZH}
1.2 V	V_{CC}	$\leq 2 \text{ ns}$	30 pF	1 k Ω	open	$2 \times V_{CC}$	GND
1.65 V to 1.95 V	V_{CC}	$\leq 2 \text{ ns}$	30 pF	1 k Ω	open	$2 \times V_{CC}$	GND
2.3 V to 2.7 V	V_{CC}	$\leq 2 \text{ ns}$	30 pF	500 Ω	open	$2 \times V_{CC}$	GND
2.7 V	2.7 V	$\leq 2.5 \text{ ns}$	50 pF	500 Ω	open	$2 \times V_{CC}$	GND
3.0 V to 3.6 V	2.7 V	$\leq 2.5 \text{ ns}$	50 pF	500 Ω	open	$2 \times V_{CC}$	GND

11. Package outline

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

SOT163-1

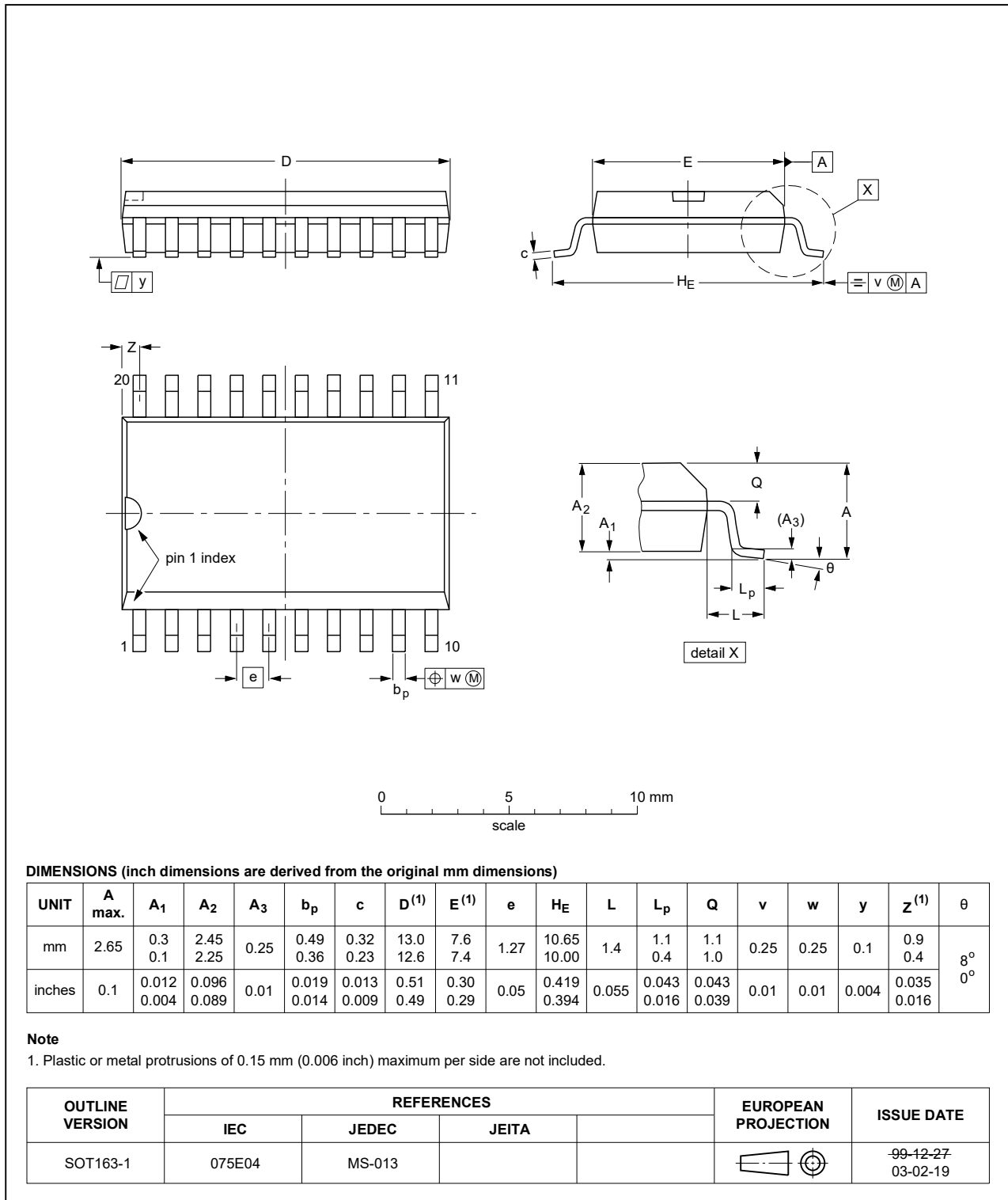


Fig. 13. Package outline SOT163-1 (SO20)

Octal D-type transparent latch with 5 V tolerant inputs/outputs; 3-state

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

SOT360-1



Fig. 14. Package outline SOT360-1 (TSSOP20)

Octal D-type transparent latch with 5 V tolerant inputs/outputs; 3-state

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



Fig. 15. Package outline SOT764-1 (DHVQFN20)

12. Abbreviations

Table 10. Abbreviations

Acronym	Description
CDM	Charged Device Model
CMOS	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
74LVC373A v.5	20210827	Product data sheet	-	74LVC373A v.4
Modifications:	<ul style="list-style-type: none"> • Section 1 and Section 2 updated. • Type number 74LVC373ADB (SOT339-1/SSOP20) removed. • Fig. 9 and Fig. 11 corrected. 			
74LVC373A v.4	20200824	Product data sheet	-	74LVC373A v.3
Modifications:	<ul style="list-style-type: none"> • 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. • Table 4: Derating values for P_{tot} total power dissipation have been updated. • Package outline drawing of SOT764-1 (Fig. 15) updated. 			
74LVC373A v.3	20121122	Product data sheet	-	74LVC373A v.2
Modifications:	<ul style="list-style-type: none"> • 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. • Table 4, Table 5, Table 6, Table 7, Table 8 and Table 9: values added for lower voltage ranges. 			
74LVC373A v.2	20030519	Product specification	-	74LVC373A v.1
74LVC373A v.1	19980729	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.

- [1] 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 <https://www.nexperia.com>.

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