



# 74HC75

## Quad bistable transparent latch

Rev. 6 — 17 January 2024

Product data sheet

## 1. General description

The 74HC75 is a quad bistable transparent latch with complementary outputs. Two latches are simultaneously controlled by one of two active HIGH enable inputs (LE12 and LE34). When LEnn is HIGH, the data enters the latches and appears at the nQ outputs. The nQ outputs follow the data inputs (nD) as long as LEnn is HIGH (transparent). The data on the nD inputs one set-up time prior to the HIGH-to-LOW transition of the LEnn will be stored in the latches. The latched outputs remain stable as long as the LEnn is LOW. Inputs include clamp diodes. This enables the use of current limiting resistors to interface inputs to voltages in excess of  $V_{CC}$ .

## 2. Features and benefits

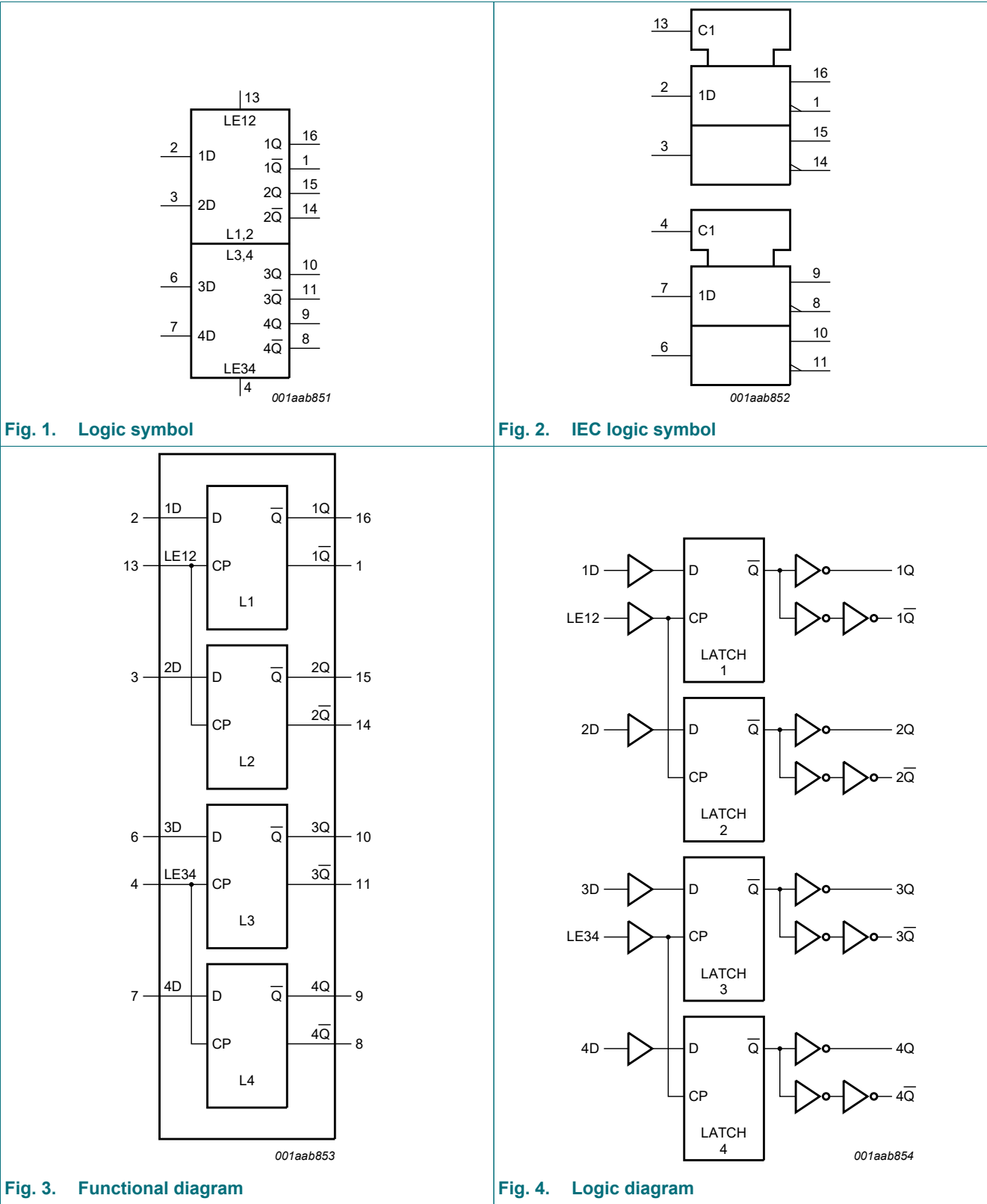
- Wide supply voltage range from 2.0 V to 6.0 V
- CMOS low power dissipation
- High noise immunity
- Latch-up performance exceeds 100 mA per JESD 78 Class II Level B
- Complies with JEDEC standards:
  - JESD8C (2.7 V to 3.6 V)
  - JESD7A (2.0 V to 6.0 V)
- Complementary Q and  $\bar{Q}$  outputs
- $V_{CC}$  and GND on the center pins
- CMOS input levels
- ESD protection:
  - HBM: ANSI/ESDA/JEDEC JS-001 class 2 exceeds 2000 V
  - CDM: ANSI/ESDA/JEDEC JS-002 class C3 exceeds 1000 V
- Specified from -40 °C to +85 °C and from -40 °C to +125 °C.

## 3. Ordering information

Table 1. Ordering information

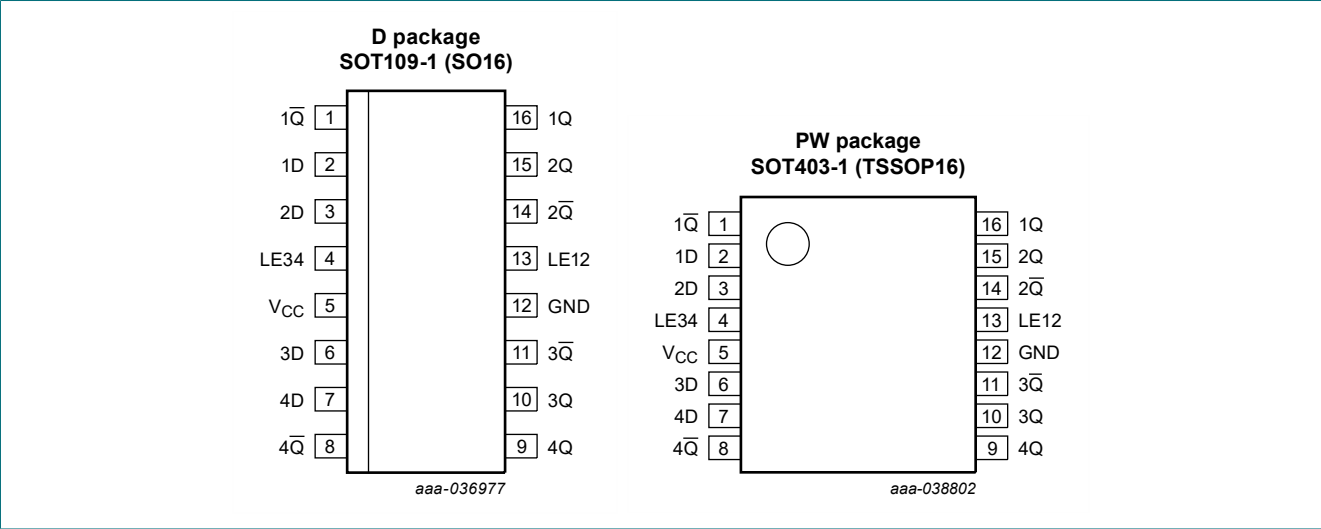
Type number	Package			
	Temperature range	Name	Description	Version
<a href="#">74HC75D</a>	-40 °C to +125 °C	SO16	plastic small outline package; 16 leads; body width 3.9 mm	<a href="#">SOT109-1</a>
<a href="#">74HC75PW</a>	-40 °C to +125 °C	TSSOP16	plastic thin shrink small outline package; 16 leads; body width 4.4 mm	<a href="#">SOT403-1</a>

4. Functional diagram



5. Pinning information

5.1. Pinning



5.2. Pin description

Table 2. Pin description

Symbol	Pin	Description
1Q, 2Q, 3Q, 4Q	1, 14, 11, 8	complementary latch output
1D, 2D, 3D, 4D	2, 3, 6, 7	data input
LE34	4	latch enable input for latches 3 and 4 (active HIGH)
V <sub>CC</sub>	5	positive supply voltage
GND	12	ground (0 V)
LE12	13	latch enable input for latches 1 and 2 (active HIGH)
1Q, 2Q, 3Q, 4Q	16, 15, 10, 9	latch output

6. Function description

Table 3. Function table

H = HIGH voltage level; L = LOW voltage level; X = don't care;  
q = lower case letters indicate the state of the referenced output one set-up time prior to the HIGH-to-LOW LEnn transition.

Operating mode	Input		Output	
	LEnn	nD	nQ	nQ
Data enabled	H	L	L	H
	H	H	H	L
Data latched	L	X	q	q

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	+7.0	V
I <sub>IK</sub>	input clamping current	V <sub>I</sub> < -0.5 V or V <sub>I</sub> > V <sub>CC</sub> + 0.5 V [1]	-	±20	mA
I <sub>OK</sub>	output clamping current	V <sub>O</sub> < -0.5 V or V <sub>O</sub> > V <sub>CC</sub> + 0.5 V [1]	-	±20	mA
I <sub>O</sub>	output current	V <sub>O</sub> = -0.5 V to V <sub>CC</sub> + 0.5 V	-	±25	mA
I <sub>CC</sub>	supply current		-	50	mA
I <sub>GND</sub>	ground current		-50	-	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 [2]	-	500	mW

- [1] The input and output voltage ratings may be exceeded if the input and output current ratings are observed.
- [2] For SOT109-1 (SO16) package: P<sub>tot</sub> derates linearly with 12.4 mW/K above 110 °C.  
For SOT403-1 (TSSOP16) package: P<sub>tot</sub> derates linearly with 8.5 mW/K above 91 °C.

8. Recommended operating conditions

Table 5. Recommended operating conditions

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
V <sub>CC</sub>	supply voltage		2.0	5.0	6.0	V
V <sub>I</sub>	input voltage		0	-	V <sub>CC</sub>	V
V <sub>O</sub>	output voltage		0	-	V <sub>CC</sub>	V
T <sub>amb</sub>	ambient temperature		-40	-	+125	°C
Δt/ΔV	input transition rise and fall rate	V <sub>CC</sub> = 2.0 V	-	-	625	ns/V
		V <sub>CC</sub> = 4.5 V	-	1.67	139	ns/V
		V <sub>CC</sub> = 6.0 V	-	-	83	ns/V

9. Static characteristics

Table 6. Static characteristics

At recommended operating conditions; voltages are referenced to GND (ground = 0 V).

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
T <sub>amb</sub> = 25 °C						
V <sub>IH</sub>	HIGH-level input voltage	V <sub>CC</sub> = 2.0 V	1.5	1.2	-	V
		V <sub>CC</sub> = 4.5 V	3.15	2.4	-	V
		V <sub>CC</sub> = 6.0 V	4.2	3.2	-	V
V <sub>IL</sub>	LOW-level input voltage	V <sub>CC</sub> = 2.0 V	-	0.8	0.5	V
		V <sub>CC</sub> = 4.5 V	-	2.1	1.35	V
		V <sub>CC</sub> = 6.0 V	-	2.8	1.8	V

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Symbol	Parameter	Conditions	Min	Typ	Max	Unit
V <sub>OH</sub>	HIGH-level output voltage	V <sub>I</sub> = V <sub>IH</sub> or V <sub>IL</sub>				
		I <sub>O</sub> = -20 µA; V <sub>CC</sub> = 2.0 V	1.9	2.0	-	V
		I <sub>O</sub> = -20 µA; V <sub>CC</sub> = 4.5 V	4.4	4.5	-	V
		I <sub>O</sub> = -20 µA; V <sub>CC</sub> = 6.0 V	5.9	6.0	-	V
		I <sub>O</sub> = -4 mA; V <sub>CC</sub> = 4.5 V	3.98	4.32	-	V
		I <sub>O</sub> = -5.2 mA; V <sub>CC</sub> = 6.0 V	5.48	5.81	-	V
V <sub>OL</sub>	LOW-level output voltage	V <sub>I</sub> = V <sub>IH</sub> or V <sub>IL</sub>				
		I <sub>O</sub> = 20 µA; V <sub>CC</sub> = 2.0 V	-	0	0.1	V
		I <sub>O</sub> = 20 µA; V <sub>CC</sub> = 4.5 V	-	0	0.1	V
		I <sub>O</sub> = 20 µA; V <sub>CC</sub> = 6.0 V	-	0	0.1	V
		I <sub>O</sub> = 4 mA; V <sub>CC</sub> = 4.5 V	-	0.15	0.26	V
		I <sub>O</sub> = 5.2 mA; V <sub>CC</sub> = 6.0 V	-	0.16	0.26	V
I <sub>I</sub>	input leakage current	V <sub>I</sub> = V <sub>CC</sub> or GND; V <sub>CC</sub> = 6.0 V	-	-	±0.1	µA
I <sub>CC</sub>	supply current	V <sub>I</sub> = V <sub>CC</sub> or GND; I <sub>O</sub> = 0 A; V <sub>CC</sub> = 6.0 V	-	-	8.0	µA
C <sub>I</sub>	input capacitance		-	3.5	-	pF
T <sub>amb</sub> = -40 °C to +85 °C						
V <sub>IH</sub>	HIGH-level input voltage	V <sub>CC</sub> = 2.0 V	1.5	-	-	V
		V <sub>CC</sub> = 4.5 V	3.15	-	-	V
		V <sub>CC</sub> = 6.0 V	4.2	-	-	V
V <sub>IL</sub>	LOW-level input voltage	V <sub>CC</sub> = 2.0 V	-	-	0.5	V
		V <sub>CC</sub> = 4.5 V	-	-	1.35	V
		V <sub>CC</sub> = 6.0 V	-	-	1.8	V
V <sub>OH</sub>	HIGH-level output voltage	V <sub>I</sub> = V <sub>IH</sub> or V <sub>IL</sub>				
		I <sub>O</sub> = -20 µA; V <sub>CC</sub> = 2.0 V	1.9	-	-	V
		I <sub>O</sub> = -20 µA; V <sub>CC</sub> = 4.5 V	4.4	-	-	V
		I <sub>O</sub> = -20 µA; V <sub>CC</sub> = 6.0 V	5.9	-	-	V
		I <sub>O</sub> = -4 mA; V <sub>CC</sub> = 4.5 V	3.84	-	-	V
		I <sub>O</sub> = -5.2 mA; V <sub>CC</sub> = 6.0 V	5.34	-	-	V
V <sub>OL</sub>	LOW-level output voltage	V <sub>I</sub> = V <sub>IH</sub> or V <sub>IL</sub>				
		I <sub>O</sub> = 20 µA; V <sub>CC</sub> = 2.0 V	-	-	0.1	V
		I <sub>O</sub> = 20 µA; V <sub>CC</sub> = 4.5 V	-	-	0.1	V
		I <sub>O</sub> = 20 µA; V <sub>CC</sub> = 6.0 V	-	-	0.1	V
		I <sub>O</sub> = 4 mA; V <sub>CC</sub> = 4.5 V	-	-	0.33	V
		I <sub>O</sub> = 5.2 mA; V <sub>CC</sub> = 6.0 V	-	-	0.33	V
I <sub>I</sub>	input leakage current	V <sub>I</sub> = V <sub>CC</sub> or GND; V <sub>CC</sub> = 6.0 V	-	-	±1.0	µA
I <sub>CC</sub>	supply current	V <sub>I</sub> = V <sub>CC</sub> or GND; I <sub>O</sub> = 0 A; V <sub>CC</sub> = 6.0 V	-	-	80	µA

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
T <sub>amb</sub> = -40 °C to +125 °C						
V <sub>IH</sub>	HIGH-level input voltage	V <sub>CC</sub> = 2.0 V	1.5	-	-	V
		V <sub>CC</sub> = 4.5 V	3.15	-	-	V
		V <sub>CC</sub> = 6.0 V	4.2	-	-	V
V <sub>IL</sub>	LOW-level input voltage	V <sub>CC</sub> = 2.0 V	-	-	0.5	V
		V <sub>CC</sub> = 4.5 V	-	-	1.35	V
		V <sub>CC</sub> = 6.0 V	-	-	1.8	V
V <sub>OH</sub>	HIGH-level output voltage	V <sub>I</sub> = V <sub>IH</sub> or V <sub>IL</sub>		-		
		I <sub>O</sub> = -20 µA; V <sub>CC</sub> = 2.0 V	1.9	-	-	V
		I <sub>O</sub> = -20 µA; V <sub>CC</sub> = 4.5 V	4.4	-	-	V
		I <sub>O</sub> = -20 µA; V <sub>CC</sub> = 6.0 V	5.9	-	-	V
		I <sub>O</sub> = -4 mA; V <sub>CC</sub> = 4.5 V	3.7	-	-	V
		I <sub>O</sub> = -5.2 mA; V <sub>CC</sub> = 6.0 V	5.2	-	-	V
V <sub>OL</sub>	LOW-level output voltage	V <sub>I</sub> = V <sub>IH</sub> or V <sub>IL</sub>		-		
		I <sub>O</sub> = 20 µA; V <sub>CC</sub> = 2.0 V	-	-	0.1	V
		I <sub>O</sub> = 20 µA; V <sub>CC</sub> = 4.5 V	-	-	0.1	V
		I <sub>O</sub> = 20 µA; V <sub>CC</sub> = 6.0 V	-	-	0.1	V
		I <sub>O</sub> = 4 mA; V <sub>CC</sub> = 4.5 V	-	-	0.4	V
		I <sub>O</sub> = 5.2 mA; V <sub>CC</sub> = 6.0 V	-	-	0.4	V
I <sub>I</sub>	input leakage current	V <sub>I</sub> = V <sub>CC</sub> or GND; V <sub>CC</sub> = 6.0 V	-	-	±1.0	µA
I <sub>CC</sub>	supply current	V <sub>I</sub> = V <sub>CC</sub> or GND; I <sub>O</sub> = 0 A; V <sub>CC</sub> = 6.0 V	-	-	160	µA

## 10. Dynamic characteristics

**Table 7. Dynamic characteristics**

$GND = 0\text{ V}$ ;  $t_r = t_f = 6\text{ ns}$ ;  $C_L = 50\text{ pF}$ ; unless otherwise specified, for test circuit see [Fig. 9](#).

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
$T_{\text{amb}} = 25\text{ °C}$						
$t_{\text{pd}}$	propagation delay	nD to nQ; see <a href="#">Fig. 5</a> [1]				
		$V_{\text{CC}} = 2.0\text{ V}$	-	33	110	ns
		$V_{\text{CC}} = 4.5\text{ V}$	-	12	22	ns
		$V_{\text{CC}} = 6.0\text{ V}$	-	10	19	ns
		$V_{\text{CC}} = 5.0\text{ V}$ ; $C_L = 15\text{ pF}$	-	11	-	ns
		nD to n $\overline{\text{Q}}$ ; see <a href="#">Fig. 6</a> [1]				
		$V_{\text{CC}} = 2.0\text{ V}$	-	39	120	ns
		$V_{\text{CC}} = 4.5\text{ V}$	-	14	24	ns
		$V_{\text{CC}} = 6.0\text{ V}$	-	11	20	ns
		$V_{\text{CC}} = 5.0\text{ V}$ ; $C_L = 15\text{ pF}$	-	11	-	ns
		LEnn to nQ; see <a href="#">Fig. 8</a> [1]				
		$V_{\text{CC}} = 2.0\text{ V}$	-	33	120	ns
		$V_{\text{CC}} = 4.5\text{ V}$	-	12	24	ns
		$V_{\text{CC}} = 6.0\text{ V}$	-	10	20	ns
		$V_{\text{CC}} = 5.0\text{ V}$ ; $C_L = 15\text{ pF}$	-	11	-	ns
		LEnn to n $\overline{\text{Q}}$ ; see <a href="#">Fig. 8</a> [1]				
		$V_{\text{CC}} = 2.0\text{ V}$	-	39	125	ns
		$V_{\text{CC}} = 4.5\text{ V}$	-	14	25	ns
		$V_{\text{CC}} = 6.0\text{ V}$	-	11	21	ns
		$V_{\text{CC}} = 5.0\text{ V}$ ; $C_L = 15\text{ pF}$	-	11	-	ns
$t_t$	transition time	nQ, n $\overline{\text{Q}}$ ; see <a href="#">Fig. 5</a> and <a href="#">Fig. 6</a> [2]				
		$V_{\text{CC}} = 2.0\text{ V}$	-	19	75	ns
		$V_{\text{CC}} = 4.5\text{ V}$	-	7	15	ns
		$V_{\text{CC}} = 6.0\text{ V}$	-	6	13	ns
$t_W$	pulse width	LEnn HIGH; see <a href="#">Fig. 8</a>				
		$V_{\text{CC}} = 2.0\text{ V}$	80	17	-	ns
		$V_{\text{CC}} = 4.5\text{ V}$	16	6	-	ns
		$V_{\text{CC}} = 6.0\text{ V}$	14	5	-	ns
$t_{\text{su}}$	set-up time	nD to LEnn; see <a href="#">Fig. 7</a>				
		$V_{\text{CC}} = 2.0\text{ V}$	60	14	-	ns
		$V_{\text{CC}} = 4.5\text{ V}$	12	5	-	ns
		$V_{\text{CC}} = 6.0\text{ V}$	10	4	-	ns
$t_h$	hold time	nD to LEnn; see <a href="#">Fig. 7</a>				
		$V_{\text{CC}} = 2.0\text{ V}$	3	-8	-	ns
		$V_{\text{CC}} = 4.5\text{ V}$	3	-3	-	ns
		$V_{\text{CC}} = 6.0\text{ V}$	3	-2	-	ns
$C_{\text{PD}}$	power dissipation capacitance	per latch; $V_I = GND$ to $V_{\text{CC}}$ [3]	-	42	-	pF

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
<b>T<sub>amb</sub> = -40 °C to +85 °C</b>						
t <sub>pd</sub>	propagation delay	nD to nQ; see <a href="#">Fig. 5</a> [1]				
		V <sub>CC</sub> = 2.0 V	-	-	140	ns
		V <sub>CC</sub> = 4.5 V	-	-	28	ns
		V <sub>CC</sub> = 6.0 V	-	-	24	ns
		nD to nQ̄; see <a href="#">Fig. 6</a> [1]				
		V <sub>CC</sub> = 2.0 V	-	-	150	ns
		V <sub>CC</sub> = 4.5 V	-	-	30	ns
		V <sub>CC</sub> = 6.0 V	-	-	26	ns
		LEnn to nQ; see <a href="#">Fig. 8</a> [1]				
		V <sub>CC</sub> = 2.0 V	-	-	150	ns
		V <sub>CC</sub> = 4.5 V	-	-	30	ns
		V <sub>CC</sub> = 6.0 V	-	-	26	ns
		LEnn to nQ̄; see <a href="#">Fig. 8</a> [1]				
		V <sub>CC</sub> = 2.0 V	-	-	155	ns
		V <sub>CC</sub> = 4.5 V	-	-	31	ns
		V <sub>CC</sub> = 6.0 V	-	-	26	ns
t <sub>t</sub>	transition time	nQ, nQ̄; see <a href="#">Fig. 5</a> and <a href="#">Fig. 6</a> [2]				
		V <sub>CC</sub> = 2.0 V	-	-	95	ns
		V <sub>CC</sub> = 4.5 V	-	-	19	ns
		V <sub>CC</sub> = 6.0 V	-	-	16	ns
t <sub>w</sub>	pulse width	LEnn HIGH; see <a href="#">Fig. 8</a>				
		V <sub>CC</sub> = 2.0 V	100	-	-	ns
		V <sub>CC</sub> = 4.5 V	20	-	-	ns
		V <sub>CC</sub> = 6.0 V	17	-	-	ns
t <sub>su</sub>	set-up time	nD to LEnn; see <a href="#">Fig. 7</a>				
		V <sub>CC</sub> = 2.0 V	75	-	-	ns
		V <sub>CC</sub> = 4.5 V	15	-	-	ns
		V <sub>CC</sub> = 6.0 V	13	-	-	ns
t <sub>h</sub>	hold time	nD to LEnn; see <a href="#">Fig. 7</a>				
		V <sub>CC</sub> = 2.0 V	3	-	-	ns
		V <sub>CC</sub> = 4.5 V	3	-	-	ns
		V <sub>CC</sub> = 6.0 V	3	-	-	ns



Symbol	Parameter	Conditions	Min	Typ	Max	Unit
<b>T<sub>amb</sub> = -40 °C to +125 °C</b>						
t <sub>pd</sub>	propagation delay	nD to nQ; see Fig. 5 [1]				
		V <sub>CC</sub> = 2.0 V	-	-	165	ns
		V <sub>CC</sub> = 4.5 V	-	-	33	ns
		V <sub>CC</sub> = 6.0 V	-	-	28	ns
		nD to nQ̄; see Fig. 6 [1]				
		V <sub>CC</sub> = 2.0 V	-	-	180	ns
		V <sub>CC</sub> = 4.5 V	-	-	36	ns
		V <sub>CC</sub> = 6.0 V	-	-	31	ns
		LEnn to nQ; see Fig. 8 [1]				
		V <sub>CC</sub> = 2.0 V	-	-	180	ns
		V <sub>CC</sub> = 4.5 V	-	-	36	ns
		V <sub>CC</sub> = 6.0 V	-	-	31	ns
		LEnn to nQ̄; see Fig. 8 [1]				
		V <sub>CC</sub> = 2.0 V	-	-	190	ns
		V <sub>CC</sub> = 4.5 V	-	-	38	ns
		V <sub>CC</sub> = 6.0 V	-	-	32	ns
t <sub>t</sub>	transition time	nQ, nQ̄; see Fig. 5 and Fig. 6 [2]				
		V <sub>CC</sub> = 2.0 V	-	-	110	ns
		V <sub>CC</sub> = 4.5 V	-	-	22	ns
		V <sub>CC</sub> = 6.0 V	-	-	19	ns
t <sub>w</sub>	pulse width	LEnn HIGH; see Fig. 8				
		V <sub>CC</sub> = 2.0 V	120	-	-	ns
		V <sub>CC</sub> = 4.5 V	24	-	-	ns
		V <sub>CC</sub> = 6.0 V	20	-	-	ns
t <sub>su</sub>	set-up time	nD to LEnn; see Fig. 7				
		V <sub>CC</sub> = 2.0 V	90	-	-	ns
		V <sub>CC</sub> = 4.5 V	18	-	-	ns
		V <sub>CC</sub> = 6.0 V	15	-	-	ns
t <sub>h</sub>	hold time	nD to LEnn; see Fig. 7				
		V <sub>CC</sub> = 2.0 V	3	-	-	ns
		V <sub>CC</sub> = 4.5 V	3	-	-	ns
		V <sub>CC</sub> = 6.0 V	3	-	-	ns

[1] t<sub>pd</sub> is the same as t<sub>PHL</sub> and t<sub>PLH</sub>.

[2] t<sub>t</sub> is the same as t<sub>THL</sub> and t<sub>TLH</sub>.

[3] C<sub>PD</sub> is used to determine the dynamic power dissipation (P<sub>D</sub> 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<sub>i</sub> = input frequency in MHz;

f<sub>o</sub> = output frequency in MHz;

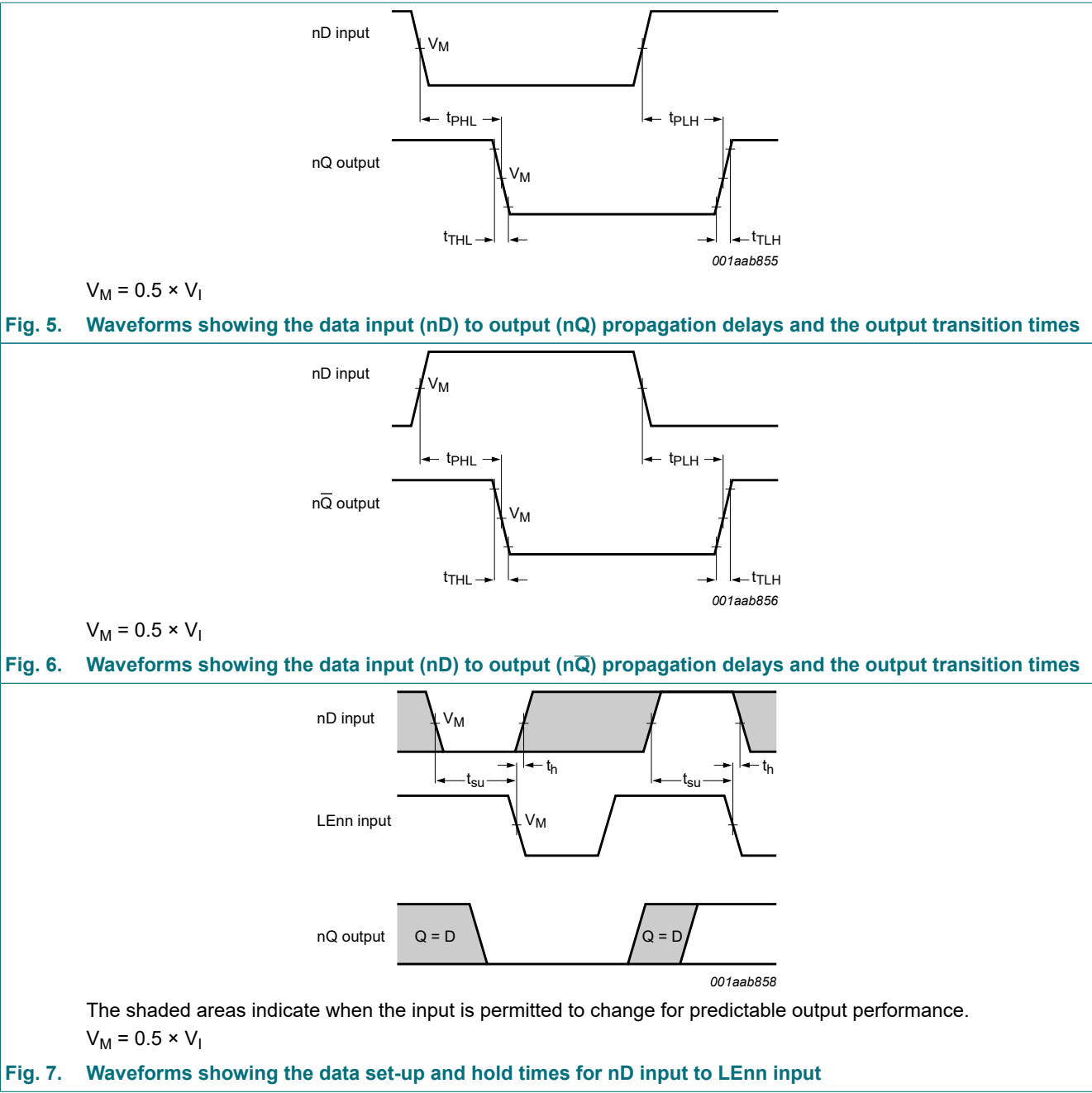
C<sub>L</sub> = output load capacitance in pF;

V<sub>CC</sub> = supply voltage in V;

N = number of inputs switching;

Σ(C<sub>L</sub> × V<sub>CC</sub><sup>2</sup> × f<sub>o</sub>) = sum of outputs.

10.1. Waveforms and test circuit



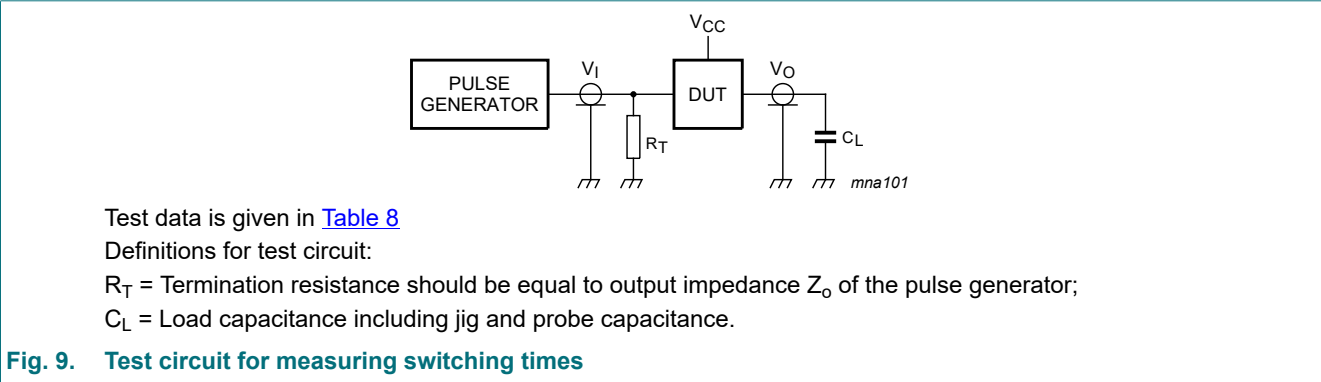
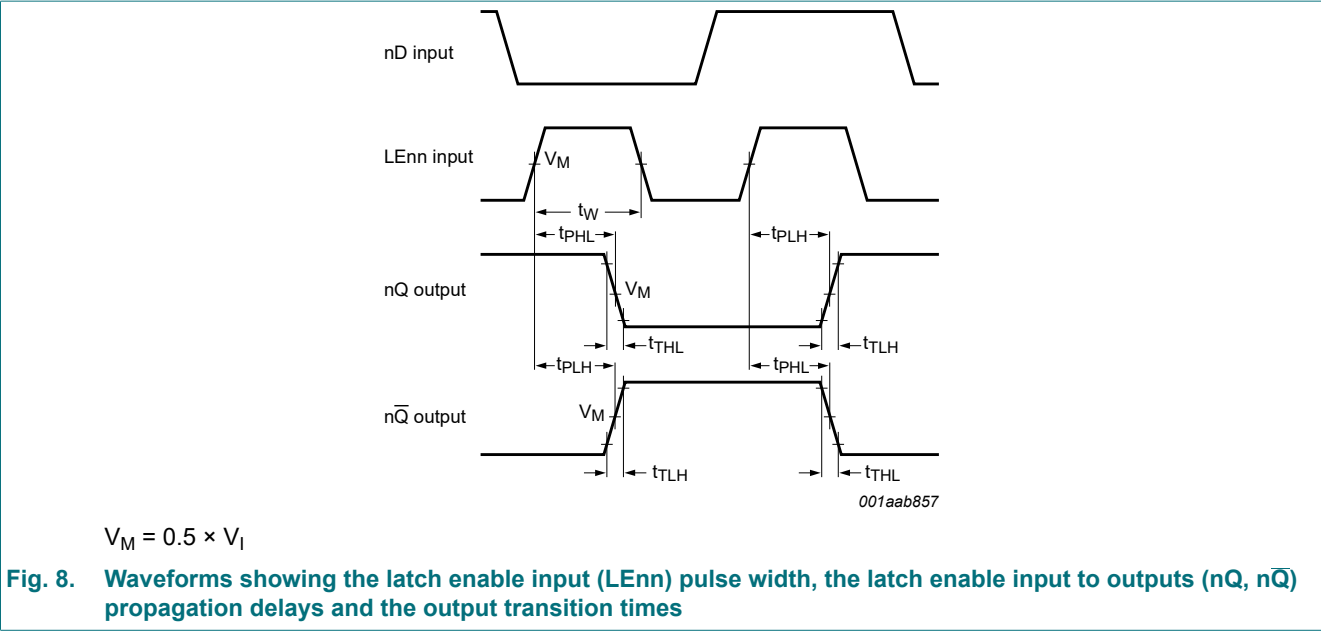


Table 8. Test data

Supply	Input		Load
$V_{CC}$	$V_I$	$t_r, t_f$	$C_L$
2.0 V	$V_{CC}$	6 ns	50 pF
4.5 V	$V_{CC}$	6 ns	50 pF
6.0 V	$V_{CC}$	6 ns	50 pF
5.0 V	$V_{CC}$	6 ns	15 pF

11. Package outline

SO16: plastic small outline package; 16 leads; body width 3.9 mm

SOT109-1

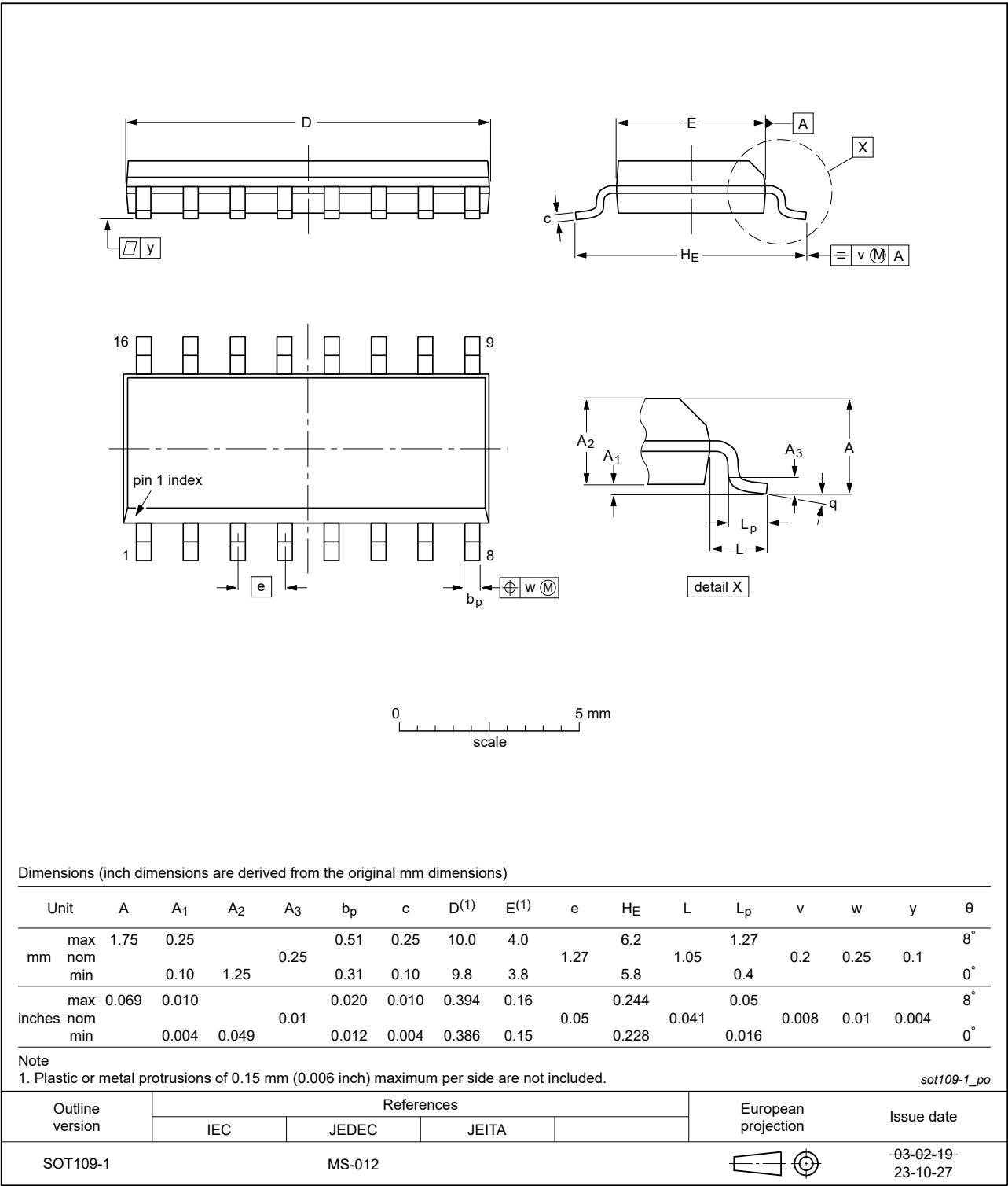


Fig. 10. Package outline SOT109-1 (SO16)

TSSOP16: plastic thin shrink small outline package; 16 leads; body width 4.4 mm

SOT403-1

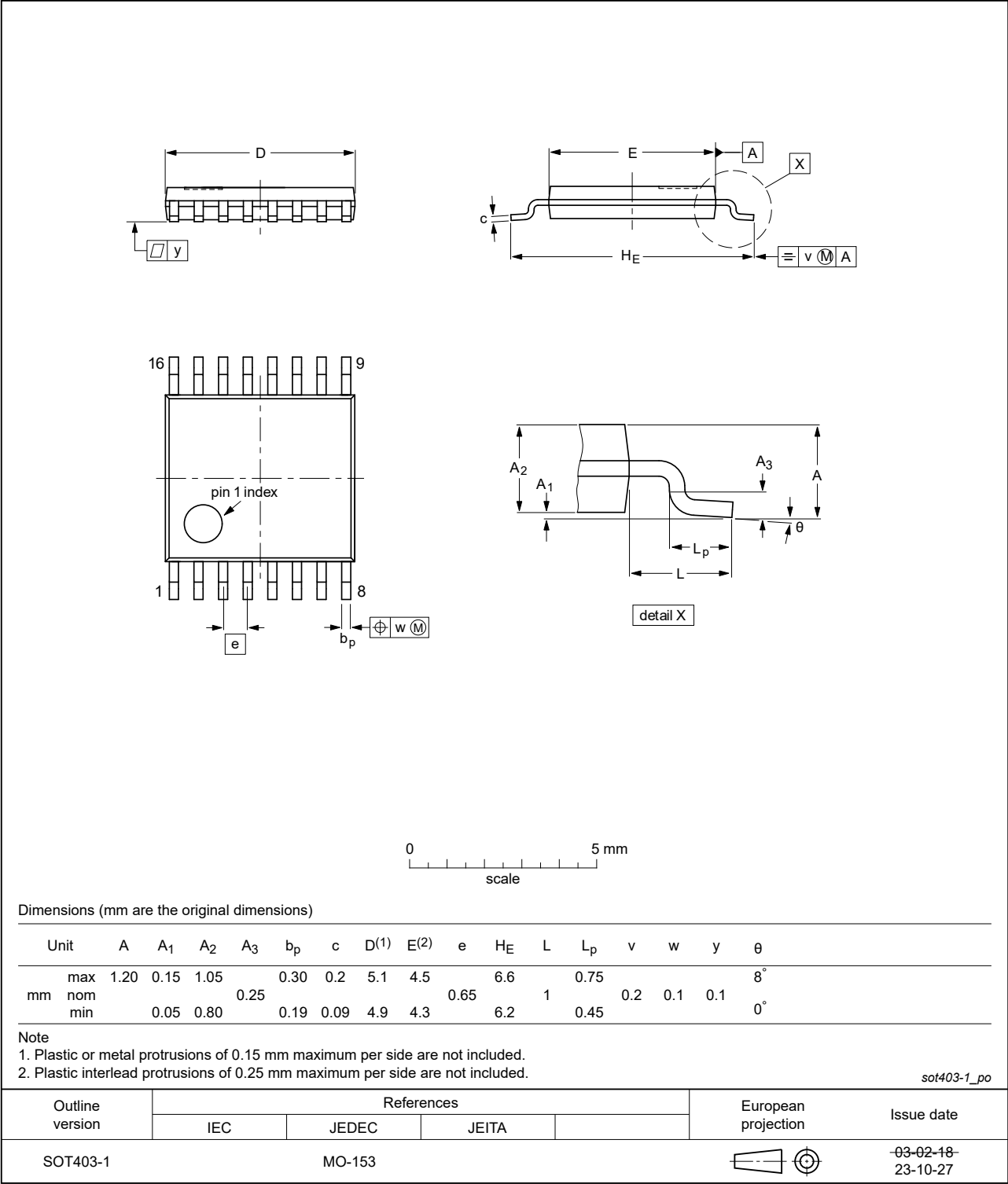


Fig. 11. Package outline SOT403-1 (TSSOP16)

12. Abbreviations

Table 9. Abbreviations

Acronym	Abbreviation
CDM	Charged Device Model
CMOS	Complementary Metal Oxide Semiconductor
DUT	Device Under Test
ESD	ElectroStatic Discharge
HBM	Human Body Model
LSTTL	Low-power Schottky Transistor-Transistor Logic

13. Revision history

Table 10. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
74HC75 v.6	20240117	Product data sheet	-	74HC75 v.5
Modifications:	<ul style="list-style-type: none"><li>Section 2: ESD specification updated according to the latest JEDEC standard.</li><li>Fig. 10, Fig. 11: Aligned SO and TSSOP package outline drawings to JEDEC MS-012 and MO-153</li></ul>			
74HC75 v.5	20210317	Product data sheet	-	74HC75 v.4
Modifications:	<ul style="list-style-type: none"><li>Section 2 updated.</li><li>Section 7: Derating values for P<sub>tot</sub> total power dissipation updated.</li><li>Type number 74HC75DB (SOT338-1 / SSOP16) removed.</li></ul>			
74HC75 v.4	20160224	Product data sheet	-	74HC75 v.3
Modifications:	<ul style="list-style-type: none"><li>Type number 74HC75N (SOT38-4) removed.</li></ul>			
74HC75 v.3	20041112	Product data sheet	-	74HC_HCT75_CNV v.2
Modifications:	<ul style="list-style-type: none"><li>The format of this data sheet has been redesigned to comply with the current presentation and information standard of Philips Semiconductors.</li><li>Removed type number 74HCT75.</li><li>Inserted family specification.</li></ul>			
74HC_HCT75_CNV v.2	19970918	Product specification	-	74HC_HCT75 v.1
74HC_HCT75 v.1	19901201	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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