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# 74HC73

## Dual JK flip-flop with reset; negative-edge trigger

Rev. 04 — 19 March 2008

Product data sheet

### 1. General description

The 74HC73 is a high-speed Si-gate CMOS device that complies with JEDEC standard no. 7A. It is pin compatible with Low-power Schottky TTL (LSTTL).

The 74HC73 is a dual negative-edge triggered JK flip-flop featuring individual J, K, clock ( $\overline{nCP}$ ) and reset ( $\overline{nR}$ ) inputs; also complementary nQ and  $\overline{nQ}$  outputs.

The J and K inputs must be stable one set-up time prior to the HIGH-to-LOW clock transition for predictable operation.

The reset ( $\overline{nR}$ ) is an asynchronous active LOW input. When LOW, it overrides the clock and data inputs, forcing the nQ output LOW and the  $\overline{nQ}$  output HIGH.

Schmitt-trigger action in the clock input makes the circuit highly tolerant to slower clock rise and fall times.

### 2. Features

- Low-power dissipation
- Complies with JEDEC standard no. 7A
- ESD protection:
  - ◆ HBM JESD22-A114E exceeds 2000 V
  - ◆ MM JESD22-A115-A exceeds 200 V
- Multiple package options
- Specified from  $-40\text{ }^{\circ}\text{C}$  to  $+80\text{ }^{\circ}\text{C}$  and from  $-40\text{ }^{\circ}\text{C}$  to  $+125\text{ }^{\circ}\text{C}$

### 3. Ordering information

Table 1. Ordering information

Type number	Package			
	Temperature range	Name	Description	Version
74HC73N	$-40\text{ }^{\circ}\text{C}$ to $+125\text{ }^{\circ}\text{C}$	DIP14	plastic dual in-line package; 14 leads (300 mil)	SOT27-1
74HC73D	$-40\text{ }^{\circ}\text{C}$ to $+125\text{ }^{\circ}\text{C}$	SO14	plastic small outline package; 14 leads; body width 3.9 mm	SOT108-1
74HC73DB	$-40\text{ }^{\circ}\text{C}$ to $+125\text{ }^{\circ}\text{C}$	SSOP14	plastic shrink small outline package; 14 leads; body width 5.3 mm	SOT337-1
74HC73PW	$-40\text{ }^{\circ}\text{C}$ to $+125\text{ }^{\circ}\text{C}$	TSSOP14	plastic thin shrink small outline package; 14 leads; body width 4.4 mm	SOT402-1

### 4. Functional diagram

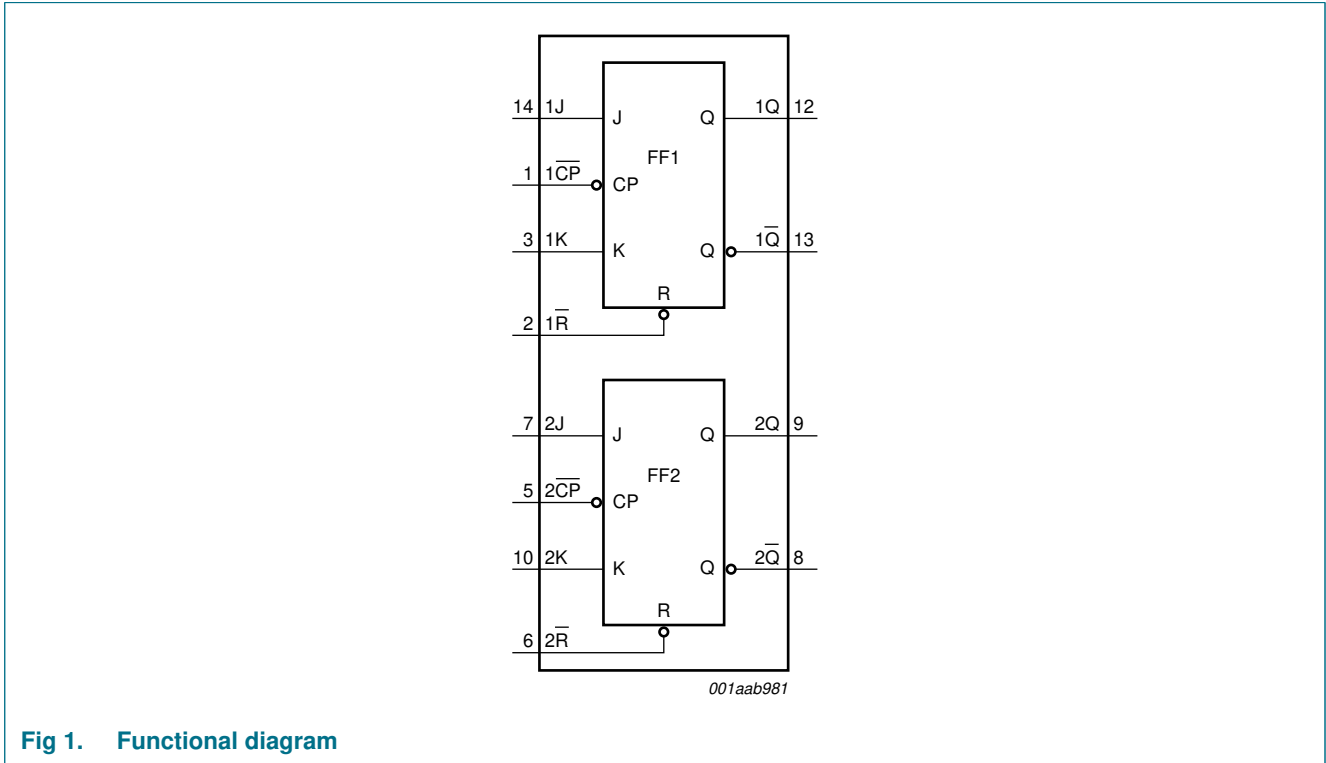


Fig 1. Functional diagram

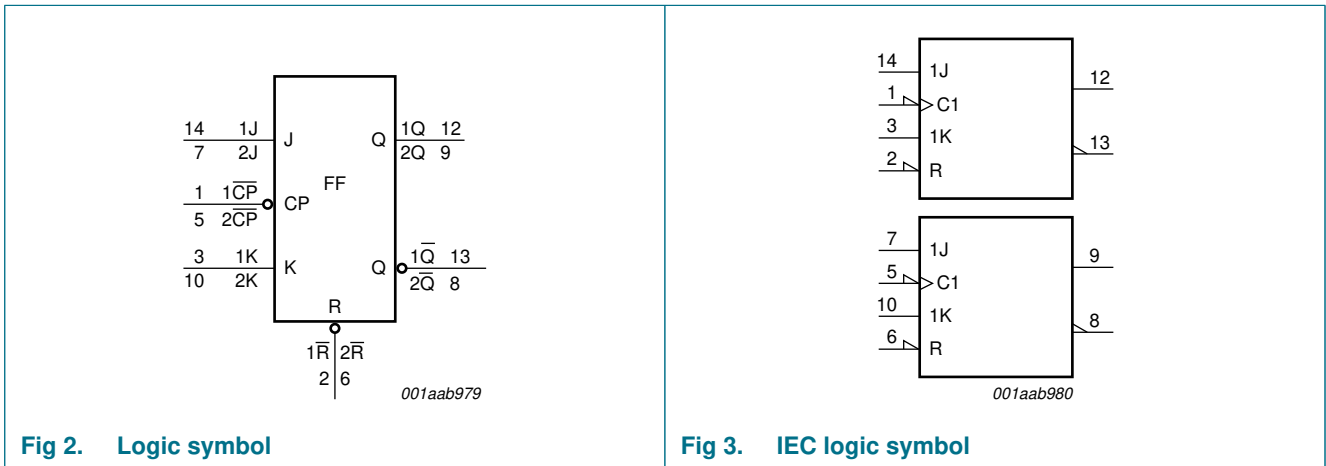


Fig 2. Logic symbol

Fig 3. IEC logic symbol

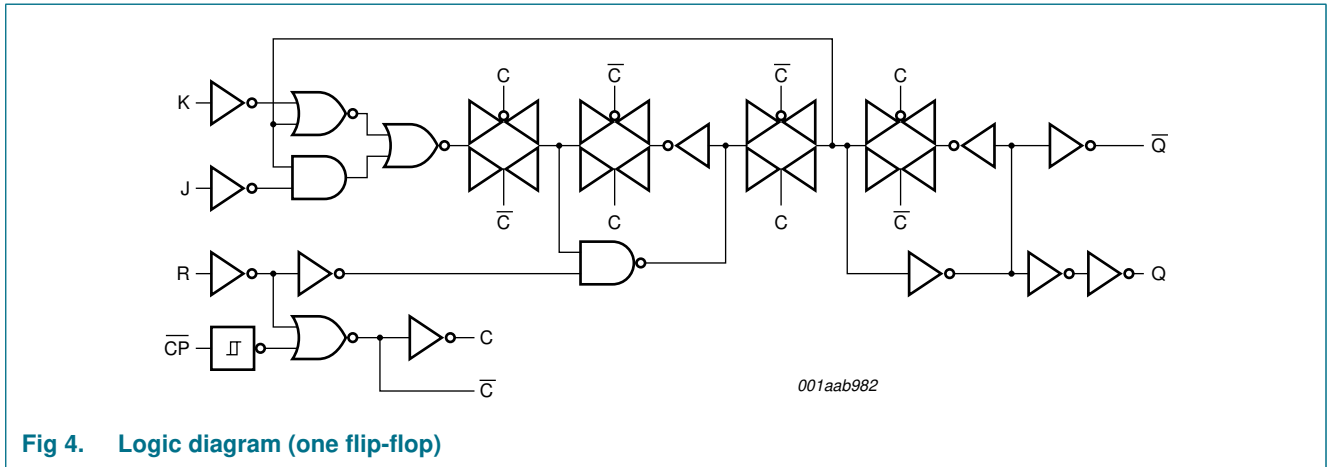


Fig 4. Logic diagram (one flip-flop)

## 5. Pinning information

### 5.1 Pinning

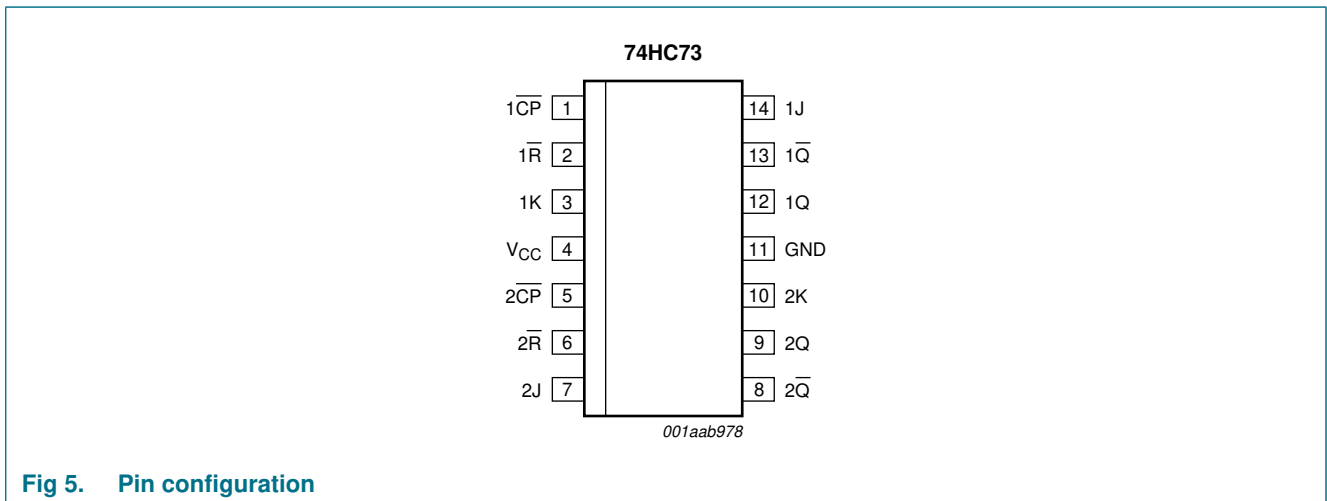


Fig 5. Pin configuration

### 5.2 Pin description

Table 2. Pin description

Symbol	Pin	Description
1CP, 2CP-bar	1, 5	clock input (HIGH-to-LOW edge-triggered); also referred to as nCP
1R-bar, 2R-bar	2, 6	asynchronous reset input (active LOW); also referred to as nR
1K, 2K	3, 10	synchronous K input; also referred to as nK
VCC	4	positive supply voltage
GND	11	ground (0 V)
1Q, 2Q	12, 9	true output; also referred to as nQ
1Q-bar, 2Q-bar	13, 8	complement output; also referred to as nQ
1J, 2J	14, 7	synchronous J input; also referred to as nJ

## 6. Functional description

Table 3. Function table<sup>[1]</sup>

Input				Output		Operating mode
nR	nCP	nJ	nK	nQ	nQ	
L	X	X	X	L	H	asynchronous reset
H	↓	h	h	q	q	toggle
H	↓	l	h	L	H	load 0 (reset)
H	↓	h	l	H	L	load 1 (set)
H	↓	l	l	q	q	hold (no change)

- [1] H = HIGH voltage level;  
 h = HIGH voltage level one set-up time prior to the HIGH-to-LOW clock transition;  
 L = LOW voltage level;  
 l = LOW voltage level one set-up time prior to the HIGH-to-LOW clock transition;  
 q = state of referenced output one set-up time prior to the HIGH-to-LOW clock transition;  
 X = don't care;  
 ↓ = HIGH-to-LOW clock transition.

## 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			
		DIP14 package	[2] -	750	mW
		SO14 package	[3] -	500	mW
		(T)SSOP14 package	[4] -	500	mW

- [1] The input and output voltage ratings may be exceeded if the input and output current ratings are observed.  
 [2] P<sub>tot</sub> derates linearly with 12 mW/K above 70 °C.  
 [3] P<sub>tot</sub> derates linearly with 8 mW/K above 70 °C.  
 [4] P<sub>tot</sub> derates linearly with 5.5 mW/K above 60 °C.

## 8. Recommended operating conditions

**Table 5. Recommended operating conditions**

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
$V_{CC}$	supply voltage		2.0	5.0	6.0	V
$V_I$	input voltage		0	-	$V_{CC}$	V
$V_O$	output voltage		0	-	$V_{CC}$	V
$T_{amb}$	ambient temperature		-40	-	+125	°C
$\Delta t/\Delta V$	input transition rise and fall rate	$V_{CC} = 2.0\text{ V}$	-	-	625	ns
		$V_{CC} = 4.5\text{ V}$	-	1.67	139	ns
		$V_{CC} = 6.0\text{ V}$	-	-	83	ns

## 9. Static characteristics

**Table 6. Static characteristics**

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

Symbol	Parameter	Conditions	25 °C			-40 °C to +85 °C		-40 °C to +125 °C		Unit
			Min	Typ	Max	Min	Max	Min	Max	
$V_{IH}$	HIGH-level input voltage	$V_{CC} = 2.0\text{ V}$	1.5	1.2	-	1.5	-	1.5	-	V
		$V_{CC} = 4.5\text{ V}$	3.15	2.4	-	3.15	-	3.15	-	V
		$V_{CC} = 6.0\text{ V}$	4.2	3.2	-	4.2	-	4.2	-	V
$V_{IL}$	LOW-level input voltage	$V_{CC} = 2.0\text{ V}$	-	0.8	0.5	-	0.5	-	0.5	V
		$V_{CC} = 4.5\text{ V}$	-	2.1	1.35	-	1.35	-	1.35	V
		$V_{CC} = 6.0\text{ V}$	-	2.8	1.8	-	1.8	-	1.8	V
$V_{OH}$	HIGH-level output voltage	$V_I = V_{IH}$ or $V_{IL}$								
		$I_O = -20\ \mu\text{A}$ ; $V_{CC} = 2.0\text{ V}$	1.9	2.0	-	1.9	-	1.9	-	V
		$I_O = -20\ \mu\text{A}$ ; $V_{CC} = 4.5\text{ V}$	4.4	4.5	-	4.4	-	4.4	-	V
		$I_O = -20\ \mu\text{A}$ ; $V_{CC} = 6.0\text{ V}$	5.9	6.0	-	5.9	-	5.9	-	V
		$I_O = -4\text{ mA}$ ; $V_{CC} = 4.5\text{ V}$	3.98	4.32	-	3.84	-	3.7	-	V
		$I_O = -5.2\text{ mA}$ ; $V_{CC} = 6.0\text{ V}$	5.48	5.81	-	5.34	-	5.2	-	V
$V_{OL}$	LOW-level output voltage	$V_I = V_{IH}$ or $V_{IL}$								
		$I_O = 20\ \mu\text{A}$ ; $V_{CC} = 2.0\text{ V}$	-	0	0.1	-	0.1	-	0.1	V
		$I_O = 20\ \mu\text{A}$ ; $V_{CC} = 4.5\text{ V}$	-	0	0.1	-	0.1	-	0.1	V
		$I_O = 20\ \mu\text{A}$ ; $V_{CC} = 6.0\text{ V}$	-	0	0.1	-	0.1	-	0.1	V
		$I_O = 4\text{ mA}$ ; $V_{CC} = 4.5\text{ V}$	-	0.15	0.26	-	0.33	-	0.4	V
		$I_O = 5.2\text{ mA}$ ; $V_{CC} = 6.0\text{ V}$	-	0.16	0.26	-	0.33	-	0.4	V
$I_I$	input leakage current	$V_I = V_{CC}$ or GND; $V_{CC} = 6.0\text{ V}$	-	-	$\pm 0.1$	-	$\pm 1.0$	-	$\pm 1.0$	$\mu\text{A}$
$I_{CC}$	supply current	$V_I = V_{CC}$ or GND; $I_O = 0\text{ A}$ ; $V_{CC} = 6.0\text{ V}$	-	-	4.0	-	40.0	-	80.0	$\mu\text{A}$
$C_I$	input capacitance		-	3.5	-	-	-	-	-	pF

## 10. Dynamic characteristics

**Table 7. Dynamic characteristics**

GND (ground = 0 V);  $C_L = 50$  pF unless otherwise specified; for test circuit, see [Figure 8](#)

Symbol	Parameter	Conditions	25 °C			-40 °C to +85 °C		-40 °C to +125 °C		Unit		
			Min	Typ	Max	Min	Max	Min	Max			
$t_{pd}$	propagation delay	$n\overline{CP}$ to nQ; see <a href="#">Figure 6</a> <sup>[1]</sup>										
		$V_{CC} = 2.0$ V	-	52	160	-	200	-	240	ns		
		$V_{CC} = 4.5$ V	-	19	32	-	40	-	48	ns		
		$V_{CC} = 6.0$ V	-	15	27	-	34	-	41	ns		
		$V_{CC} = 5.0$ V; $C_L = 15$ pF	-	16	-	-	-	-	-	ns		
		$n\overline{CP}$ to n $\overline{Q}$ ; see <a href="#">Figure 6</a>										
		$V_{CC} = 2.0$ V	-	52	160	-	200	-	240	ns		
		$V_{CC} = 4.5$ V	-	19	32	-	40	-	48	ns		
		$V_{CC} = 6.0$ V	-	15	27	-	34	-	41	ns		
		$V_{CC} = 5.0$ V; $C_L = 15$ pF	-	16	-	-	-	-	-	ns		
		$n\overline{R}$ to nQ, n $\overline{Q}$ ; see <a href="#">Figure 7</a>										
		$V_{CC} = 2.0$ V	-	50	145	-	180	-	220	ns		
		$V_{CC} = 4.5$ V	-	18	29	-	36	-	44	ns		
		$V_{CC} = 6.0$ V	-	14	25	-	31	-	38	ns		
		$V_{CC} = 5.0$ V; $C_L = 15$ pF	-	15	-	-	-	-	-	ns		
		$t_t$	transition time	nQ, n $\overline{Q}$ ; see <a href="#">Figure 6</a> <sup>[2]</sup>								
$V_{CC} = 2.0$ V	-			19	75	-	95	-	110	ns		
$V_{CC} = 4.5$ V	-			7	15	-	19	-	22	ns		
$V_{CC} = 6.0$ V	-			6	13	-	16	-	19	ns		
$t_w$	pulse width	$n\overline{CP}$ input, HIGH or LOW; see <a href="#">Figure 6</a>										
		$V_{CC} = 2.0$ V	80	22	-	100	-	120	-	ns		
		$V_{CC} = 4.5$ V	16	8	-	20	-	24	-	ns		
		$V_{CC} = 6.0$ V	14	6	-	17	-	20	-	ns		
		$n\overline{R}$ input, HIGH or LOW; see <a href="#">Figure 7</a>										
		$V_{CC} = 2.0$ V	80	22	-	100	-	120	-	ns		
		$V_{CC} = 4.5$ V	16	8	-	20	-	24	-	ns		
		$V_{CC} = 6.0$ V	14	6	-	17	-	20	-	ns		
		$t_{rec}$	recovery time	$n\overline{R}$ to $n\overline{CP}$ ; see <a href="#">Figure 7</a>								
				$V_{CC} = 2.0$ V	80	22	-	100	-	120	-	ns
$V_{CC} = 4.5$ V	16			8	-	20	-	24	-	ns		
$V_{CC} = 6.0$ V	14			6	-	17	-	20	-	ns		
$t_{su}$	set-up time	nJ, nK to $n\overline{CP}$ ; see <a href="#">Figure 6</a>										
		$V_{CC} = 2.0$ V	80	22	-	100	-	120	-	ns		
		$V_{CC} = 4.5$ V	16	8	-	20	-	24	-	ns		
		$V_{CC} = 6.0$ V	14	6	-	17	-	20	-	ns		

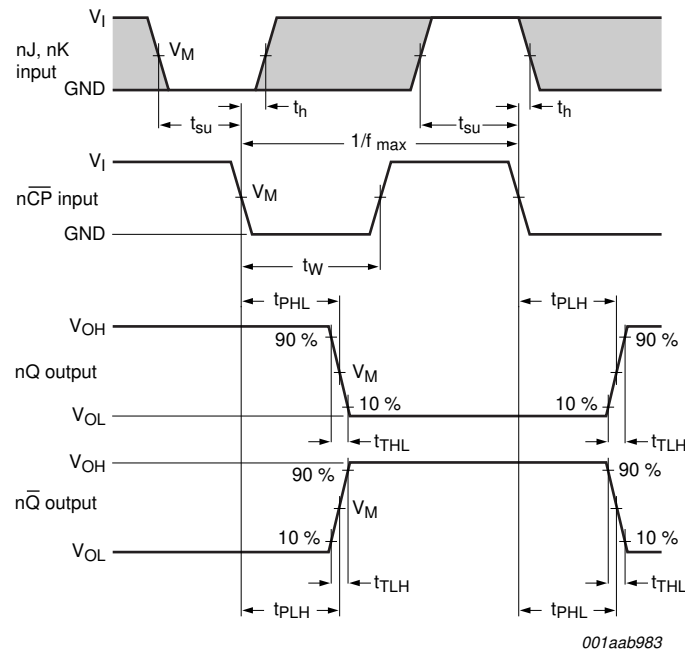
**Table 7. Dynamic characteristics ...continued**  
*GND (ground = 0 V); C<sub>L</sub> = 50 pF unless otherwise specified; for test circuit, see Figure 8*

Symbol	Parameter	Conditions	25 °C			-40 °C to +85 °C		-40 °C to +125 °C		Unit
			Min	Typ	Max	Min	Max	Min	Max	
t <sub>h</sub>	hold time	nJ, nK to nCP; see Figure 6								
		V <sub>CC</sub> = 2.0 V	3	-8	-	3		3	-	ns
		V <sub>CC</sub> = 4.5 V	3	-3	-	3	-	3	-	ns
		V <sub>CC</sub> = 6.0 V	3	-2	-	3	-	3	-	ns
f <sub>max</sub>	maximum frequency	nCP input; see Figure 6								
		V <sub>CC</sub> = 2.0 V	6.0	23	-	4.8		4.0	-	MHz
		V <sub>CC</sub> = 4.5 V	30	70	-	24	-	20	-	MHz
		V <sub>CC</sub> = 6.0 V	35	83	-	28	-	24	-	MHz
C <sub>PD</sub>	power dissipation capacitance	per flip-flop; V <sub>I</sub> = GND to V <sub>CC</sub>	[3]	-	30	-	-	-	-	pF

- [1] t<sub>pd</sub> is the same as t<sub>PHL</sub>, t<sub>PLH</sub>.
- [2] t<sub>i</sub> is the same as t<sub>THL</sub>, t<sub>TLH</sub>.
- [3] C<sub>PD</sub> is used to determine the dynamic power dissipation (P<sub>D</sub> in μW).  
 $P_D = C_{PD} \times V_{CC}^2 \times f_i \times N + \sum(C_L \times V_{CC}^2 \times f_o)$  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;  
 $\sum(C_L \times V_{CC}^2 \times f_o)$  = sum of outputs.



11. Waveforms

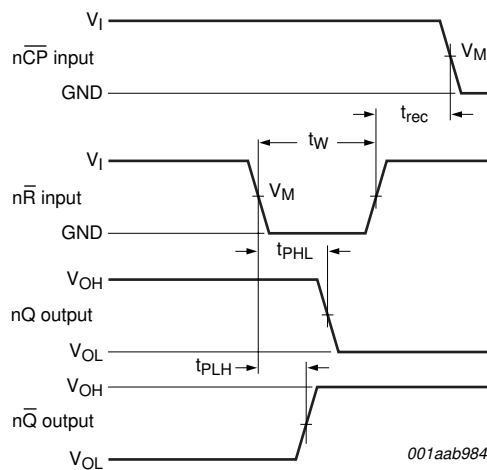


The shaded areas indicate when the input is permitted to change for predictable output performance.

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

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

**Fig 6. Waveforms showing the clock ( $\overline{nCP}$ ) to output ( $nQ$ ,  $\overline{nQ}$ ) propagation delays, the clock pulse width, the J and K to  $\overline{nCP}$  set-up and hold times, the output transition times and the maximum clock frequency**



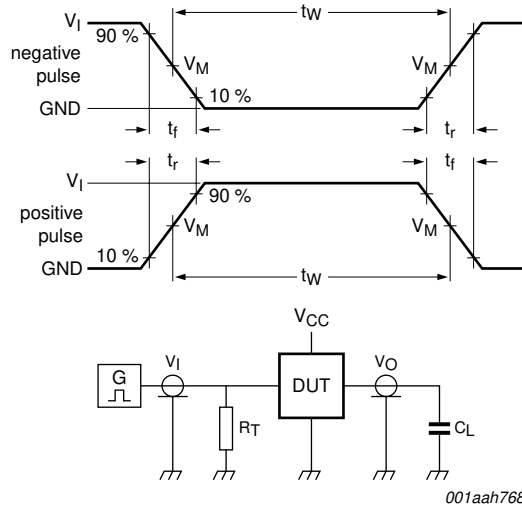
Measurement points are given in [Table 8](#).

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

**Fig 7. Waveforms showing the reset ( $\overline{nR}$ ) input to output ( $nQ$ ,  $\overline{nQ}$ ) propagation delays and the reset pulse width and the  $\overline{nR}$  to  $\overline{nCP}$  removal time**

Table 8. Measurement points

Type	Input		Output
	$V_I$	$V_M$	$V_M$
74HC73	$V_{CC}$	$0.5V_{CC}$	$0.5V_{CC}$



001aah768

Test data is given in [Table 9](#).

Definitions for test circuit:

$R_T$  = Termination resistance should be equal to output impedance  $Z_o$  of the pulse generator.

$C_L$  = Load capacitance including jig and probe capacitance.

Fig 8. Test circuit for measuring switching times

Table 9. Test data

Type	Input		Load
	$V_I$	$t_r, t_f$	$C_L$
74HC73	$V_{CC}$	6 ns	15 pF, 50 pF

12. Package outline

DIP14: plastic dual in-line package; 14 leads (300 mil)

SOT27-1

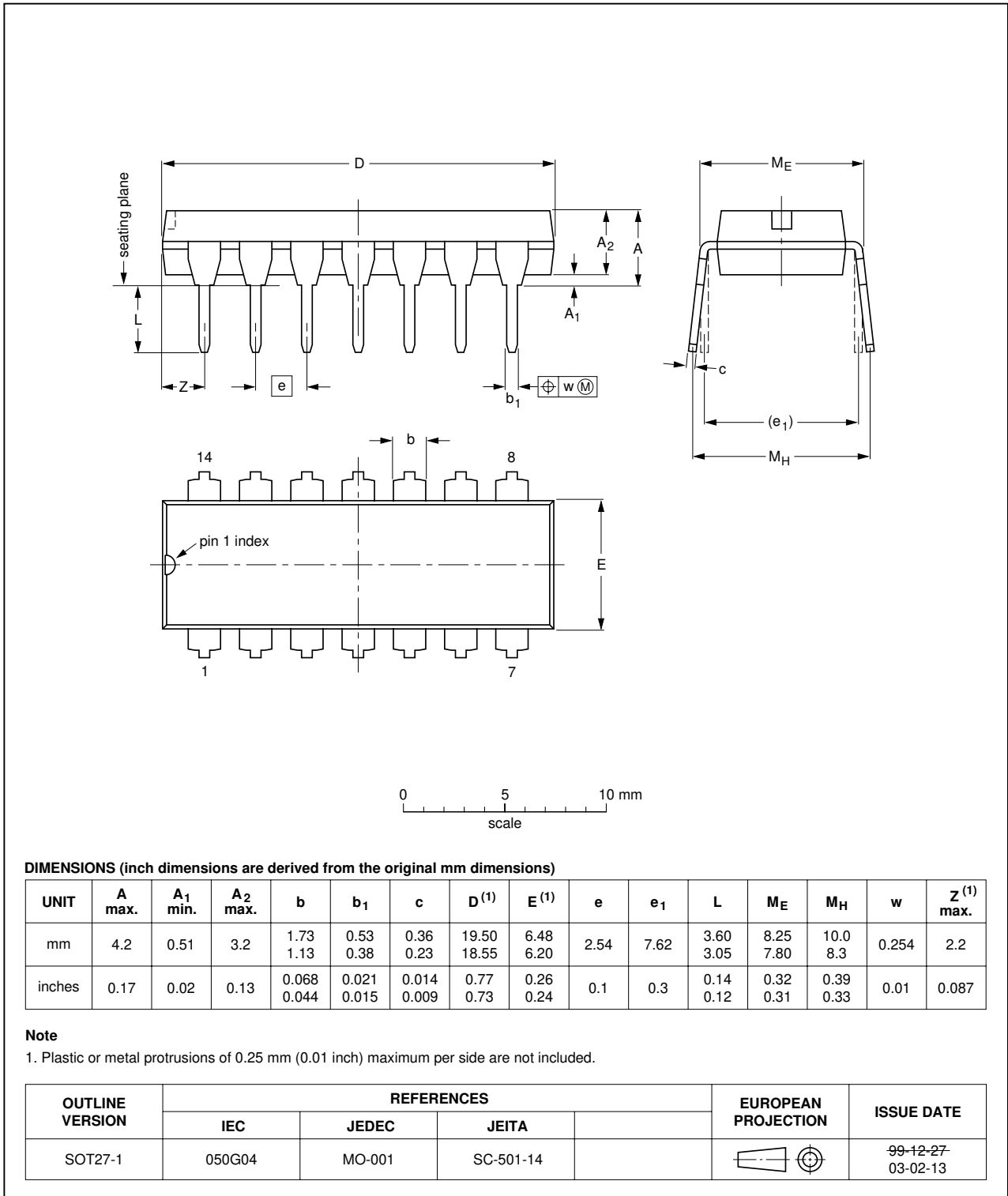


Fig 9. Package outline SOT27-1 (DIP14)

SO14: plastic small outline package; 14 leads; body width 3.9 mm

SOT108-1

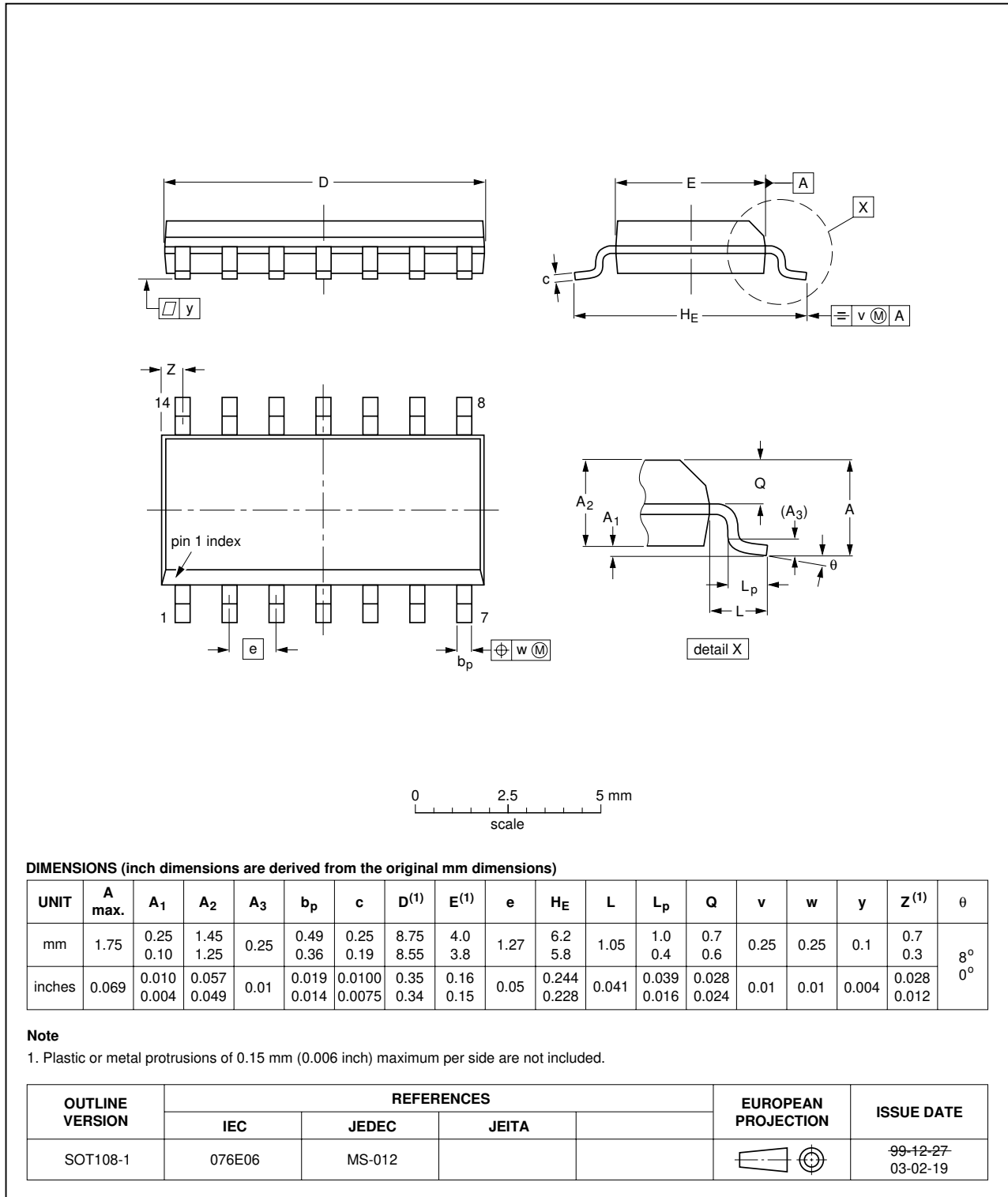


Fig 10. Package outline SOT108-1 (SO14)

SSOP14: plastic shrink small outline package; 14 leads; body width 5.3 mm

SOT337-1

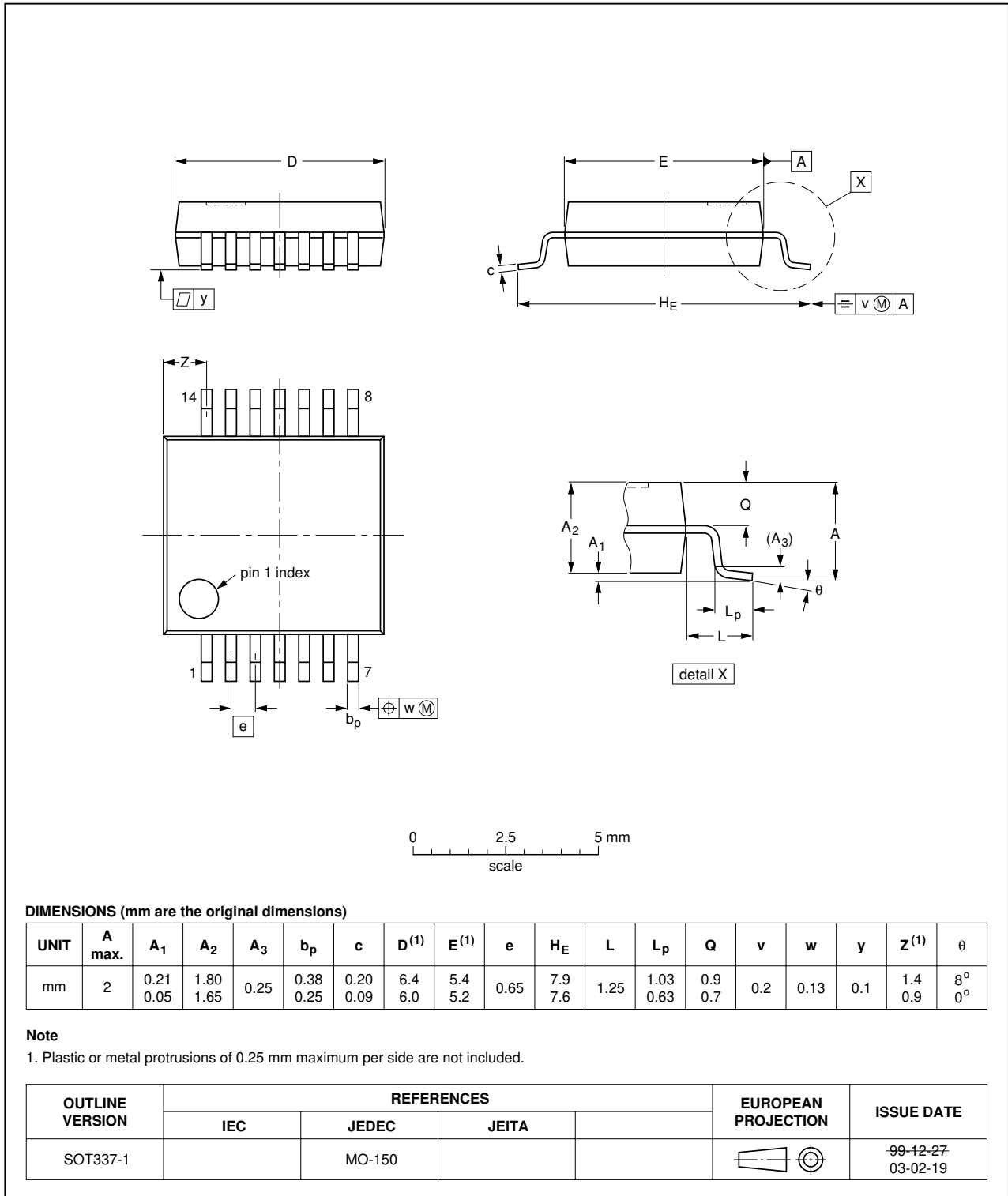


Fig 11. Package outline SOT337-1 (SSOP14)

TSSOP14: plastic thin shrink small outline package; 14 leads; body width 4.4 mm

SOT402-1

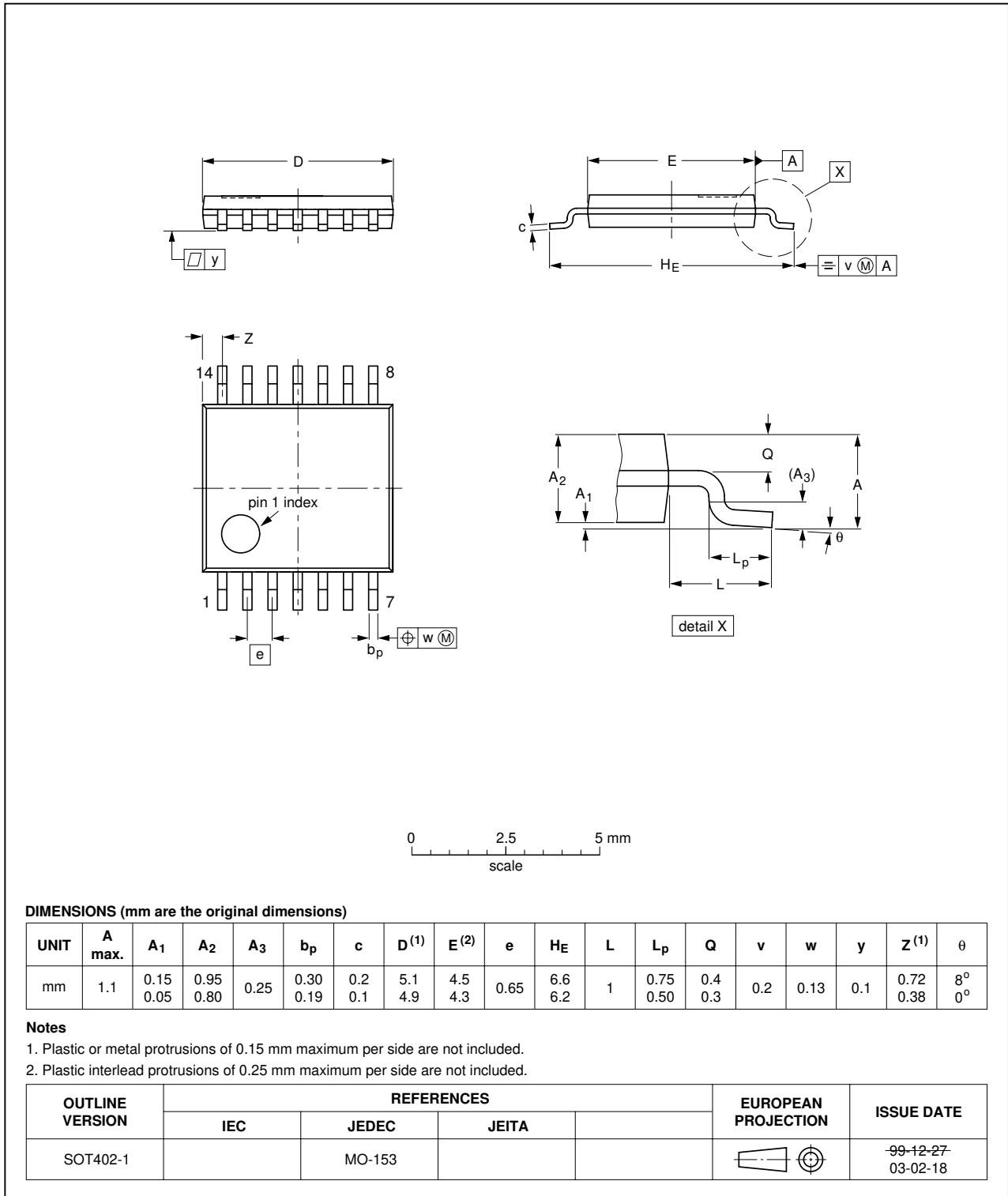


Fig 12. Package outline SOT402-1 (TSSOP14)

## 13. Abbreviations

Table 10. Abbreviations

Acronym	Description
CMOS	Complementary Metal-Oxide Semiconductor
DUT	Device Under Test
ESD	ElectroStatic Discharge
HBM	Human Body Model
MM	Machine Model
TTL	Transistor-Transistor Logic

## 14. Revision history

Table 11. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
74HC73_4	20080319	Product data sheet	-	74HC73_3
Modifications:	<ul style="list-style-type: none"> <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>Quick reference data incorporated into <a href="#">Section 9</a> and <a href="#">10</a>.</li> <li><a href="#">Section 8 "Recommended operating conditions"</a> <math>t_r</math>, <math>t_f</math> converted to <math>\Delta t/\Delta V</math>.</li> </ul>			
74HC73_3	20041112	Product data sheet	-	74HC_HCT73_CNV_2
74HC_HCT73_CNV_2	December 1990	Product specification	-	-

## 15. Legal information

### 15.1 Data sheet status

Document status <sup>[1][2]</sup>	Product status <sup>[3]</sup>	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 URL <http://www.nxp.com>.

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