

# 74LVT14PW,112 Datasheet

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|                              |  |
|------------------------------|--|
| DiGi Electronics Part Number | 74LVT14PW,112-DG                               |
| Manufacturer                 | <a href="#">Nexperia USA Inc.</a>              |
| Manufacturer Product Number  | 74LVT14PW,112                                  |
| Description                  | IC INVERTER 6CH 1-INP 14TSSOP                  |
| Detailed Description         | Inverter IC 6 Channel Schmitt Trigger 14-TSSOP |



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## Purchase and inquiry

**Manufacturer Product Number:**

74LVT14PW,112

**Series:**

74LVT

**Logic Type:**

Inverter

**Number of Inputs:**

1

**Voltage - Supply:**

2.7V ~ 3.6V

**Input Logic Level - Low:**

0.8V

**Max Propagation Delay @ V, Max CL:**

3.8ns @ 3.3V, 50pF

**Mounting Type:**

Surface Mount

**Package / Case:**

14-TSSOP (0.173", 4.40mm Width)

**Manufacturer:**

Nexperia USA Inc.

**Product Status:**

Obsolete

**Number of Circuits:**

6

**Features:**

Schmitt Trigger

**Current - Output High, Low:**

20mA, 32mA

**Input Logic Level - High:**

2V

**Operating Temperature:**

-40°C ~ 85°C

**Supplier Device Package:**

14-TSSOP

**Base Product Number:**

74LVT14

## Environmental & Export classification

**RoHS Status:**

ROHS3 Compliant

**REACH Status:**

REACH Unaffected

**HTSUS:**

8542.39.0001

**Moisture Sensitivity Level (MSL):**

1 (Unlimited)

**ECCN:**

EAR99



# 74LVT14

## 3.3 V hex inverter Schmitt trigger

Rev. 5 — 25 January 2024

Product data sheet

## 1. General description

The 74LVT14 is a hex inverter with Schmitt-trigger inputs. Bus hold data inputs eliminate the need for external pull-up resistors to define unused inputs. This device is fully specified for partial power down applications using  $I_{OFF}$ . The  $I_{OFF}$  circuitry disables the output, preventing the potentially damaging backflow current through the device when it is powered down.

## 2. Features and benefits

- Different positive and negative going input threshold voltages
- Tolerant of slow input transitions
- Wide supply voltage range from 2.7 V to 3.6 V
- Overvoltage tolerant inputs to 5.5 V
- BiCMOS high speed and output drive
- Output capability: +32 mA/-20 mA
- High noise immunity
- Direct interface with TTL levels
- No bus current loading when output is tied to 5 V bus
- Power-up 3-state
- $I_{OFF}$  circuitry provides partial Power-down mode operation
- Latch-up protection exceeds 500 mA per JESD78 class II level A
- Complies with JEDEC standard JEDEC8C (2.7 V to 3.6 V)
- 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

## 3. Ordering information

Table 1. Ordering information

| Type number               | Package           |          |  | Version                  |
|---------------------------|-------------------|----------|--|--------------------------|
|                           | Temperature range | Name     | Description  |                          |
| <a href="#">74LVT14D</a>  | -40 °C to +85 °C  | SO14     | plastic small outline package; 14 leads; body width 3.9 mm   | <a href="#">SOT108-1</a> |
| <a href="#">74LVT14PW</a> | -40 °C to +85 °C  | TSSOP14  | plastic thin shrink small outline package; 14 leads; body width 4.4 mm   | <a href="#">SOT402-1</a> |
| <a href="#">74LVT14BQ</a> | -40 °C to +85 °C  | DHVQFN14 | plastic dual in-line compatible thermal enhanced very thin quad flat package; no leads; 14 terminals; body 2.5 × 3 × 0.85 mm | <a href="#">SOT762-1</a> |

## 4. Functional diagram

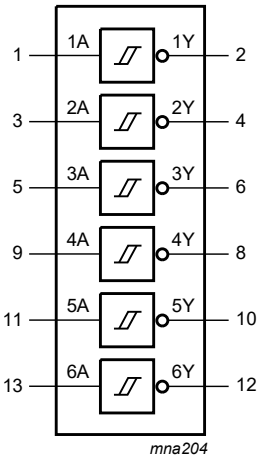


Fig. 1. Logic symbol

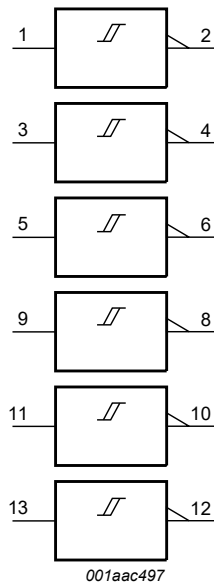


Fig. 2. IEC logic symbol

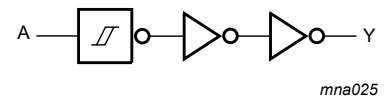
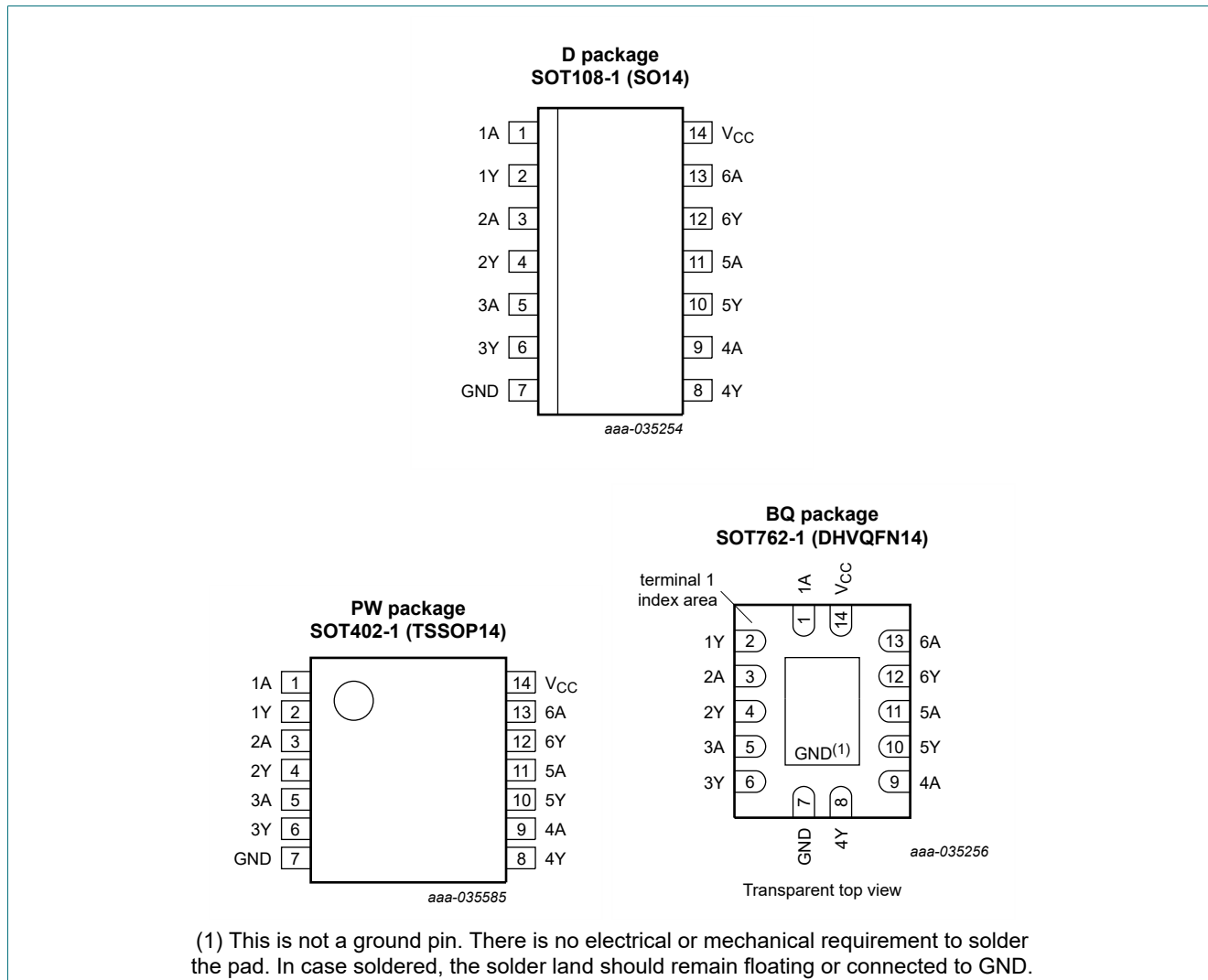


Fig. 3. Logic diagram (one inverter)

## 5. Pinning information

### 5.1. Pinning



### 5.2. Pin description

Table 2. Pin description

| Symbol                 | Pin                | Description             |
|------------------------|--------------------|-------------------------|
| 1A, 2A, 3A, 4A, 5A, 6A | 1, 3, 5, 9, 11, 13 | data input              |
| 1Y, 2Y, 3Y, 4Y, 5Y, 6Y | 2, 4, 6, 8, 10, 12 | data output             |
| GND                    | 7                  | ground (0 V)            |
| V <sub>CC</sub>        | 14                 | positive supply voltage |

## 6. Functional description

**Table 3. Function selection**

*H = HIGH voltage level; L = LOW voltage level.*

| Inputs | Output |
|--------|--------|
| nA     | nY     |
| L      | H      |
| H      | L      |

## 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    |
| $V_I$     | input voltage           | [1]                              | -0.5 | +7.0 | V    |
| $V_O$     | output voltage          | output in OFF 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   |
| $I_O$     | output current          | output in LOW state              | -    | 64   | mA   |
|           |                         | output in HIGH state             | -32  | -    | mA   |
| $T_{stg}$ | storage temperature     |                                  | -65  | +150 | °C   |
| $T_j$     | junction temperature    | [2]                              | -    | +150 | °C   |
| $P_{tot}$ | total power dissipation | $T_{amb} = -40$ °C to +85 °C [3] | -    | 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. The maximum junction temperature of this integrated circuit should not exceed 150 °C.

[3] For SOT402-1 (TSSOP14) package:  $P_{tot}$  derates linearly with 7.3 mW/K above 81 °C.

## 8. Recommended operating conditions

**Table 5. Recommended operating conditions**

| Symbol              | Parameter                           | Conditions     | Min | Typ | Max | Unit |
|---------------------|-------------------------------------|----------------|-----|-----|-----|------|
| $V_{CC}$            | supply voltage                      |                | 2.7 | -   | 3.6 | V    |
| $V_I$               | input voltage                       |                | 0   | -   | 5.5 | V    |
| $I_{OH}$            | HIGH-level output current           |                | -20 | -   | -   | mA   |
| $I_{OL}$            | LOW-level output current            |                | -   | -   | 32  | mA   |
| $T_{amb}$           | ambient temperature                 | in free air    | -40 | -   | +85 | °C   |
| $\Delta t/\Delta V$ | 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 °C to +85 °C      |        |      | Unit |
|------------------|----------------------------------|---|-----------------------|--------|------|------|
|                  |                                  |   | Min                   | Typ[1] | Max  |      |
| V <sub>T+</sub>  | positive-going threshold voltage | V <sub>CC</sub> = 3.3 V; see Fig. 4   | 1.5                   | 1.7    | 2.0  | V    |
| V <sub>T-</sub>  | negative-going threshold voltage | V <sub>CC</sub> = 3.3 V; see Fig. 4   | 0.9                   | 1.1    | 1.3  | V    |
| V <sub>H</sub>   | hysteresis voltage               | V <sub>CC</sub> = 3.3 V; see Fig. 4   | 0.4                   | 0.6    | -    | V    |
| V <sub>IK</sub>  | input clamping voltage           | V <sub>CC</sub> = 2.7 V; I <sub>IK</sub> = -18 mA   | -1.2                  | -      | -    | V    |
| V <sub>OH</sub>  | HIGH-level output voltage        | V <sub>CC</sub> = 2.7 V to 3.6 V; I <sub>OH</sub> = -100 μA   | V <sub>CC</sub> - 0.2 | -      | -    | V    |
|                  |                                  | V <sub>CC</sub> = 2.7 V; I <sub>OH</sub> = -6 mA  | 2.4                   | -      | -    | V    |
|                  |                                  | V <sub>CC</sub> = 3.0 V; I <sub>OH</sub> = -20 mA   | 2.0                   | -      | -    | V    |
| V <sub>OL</sub>  | LOW-level output voltage         | V <sub>CC</sub> = 2.7 V; I <sub>OL</sub> = 100 μA   | -                     | -      | 0.2  | V    |
|                  |                                  | V <sub>CC</sub> = 2.7 V; I <sub>OL</sub> = 24 mA  | -                     | -      | 0.5  | V    |
|                  |                                  | V <sub>CC</sub> = 3.0 V; I <sub>OL</sub> = 32 mA  | -                     | -      | 0.5  | V    |
| I <sub>I</sub>   | input leakage current            | V <sub>CC</sub> = 0 V or 3.6 V; V <sub>I</sub> = 5.5 V  | -                     | -      | 10   | μA   |
|                  |                                  | V <sub>CC</sub> = 3.6 V; V <sub>I</sub> = V <sub>CC</sub> or GND  | -                     | -      | ±1   | μA   |
| I <sub>OFF</sub> | power-off leakage current        | V <sub>CC</sub> = 0 V; V <sub>I</sub> or V <sub>O</sub> = 0 V to 4.5 V  | -                     | -      | ±100 | μA   |
| I <sub>CC</sub>  | supply current                   | V <sub>CC</sub> = 3.6 V; V <sub>I</sub> = GND or V <sub>CC</sub> ; I <sub>O</sub> = 0 A   |                       |        |      |      |
|                  |                                  | outputs HIGH  | -                     | -      | 0.02 | mA   |
|                  |                                  | outputs LOW   | -                     | 1.5    | 3    | mA   |
| ΔI <sub>CC</sub> | additional supply current        | per input pin; V <sub>CC</sub> = 3.0 V to 3.6 V; one input = V <sub>CC</sub> - 0.6 V and other inputs at V <sub>CC</sub> or GND [2] | -                     | -      | 0.2  | mA   |
| C <sub>I</sub>   | input capacitance                | V <sub>I</sub> = 0 V or 3.0 V   | -                     | 3      | -    | pF   |

[1] All typical values are measured at V<sub>CC</sub> = 3.3 V (unless stated otherwise) and T<sub>amb</sub> = 25 °C.

[2] This is the increase in the supply current for each input at the specified voltage level other than V<sub>CC</sub> or GND.

## 10. Dynamic characteristics

**Table 7. Dynamic characteristics**

Voltages are referenced to GND (ground = 0 V). For test circuit see Fig. 6.

| Symbol           | Parameter                     | Conditions                      | -40 °C to +85 °C |         |     | Unit |
|------------------|-------------------------------|---------------------------------|------------------|---------|-----|------|
|                  |                               |                                 | Min              | Typ [1] | Max |      |
| t <sub>PLH</sub> | LOW to HIGH propagation delay | nA to nY; see Fig. 5            |                  |         |     |      |
|                  |                               | V <sub>CC</sub> = 2.7 V         | -                | -       | 6.9 | ns   |
|                  |                               | V <sub>CC</sub> = 3.3 V + 0.3 V | 1.0              | 3.8     | 5.7 | ns   |
| t <sub>PHL</sub> | HIGH to LOW propagation delay | nA to nY; see Fig. 5            |                  |         |     |      |
|                  |                               | V <sub>CC</sub> = 2.7 V         | -                | -       | 4.1 | ns   |
|                  |                               | V <sub>CC</sub> = 3.3 V + 0.3 V | 1.0              | 3.2     | 4.5 | ns   |

[1] Typical values are measured at T<sub>amb</sub> = 25 °C and V<sub>CC</sub> = 3.3 V.

## 10.1. Waveforms and test circuit

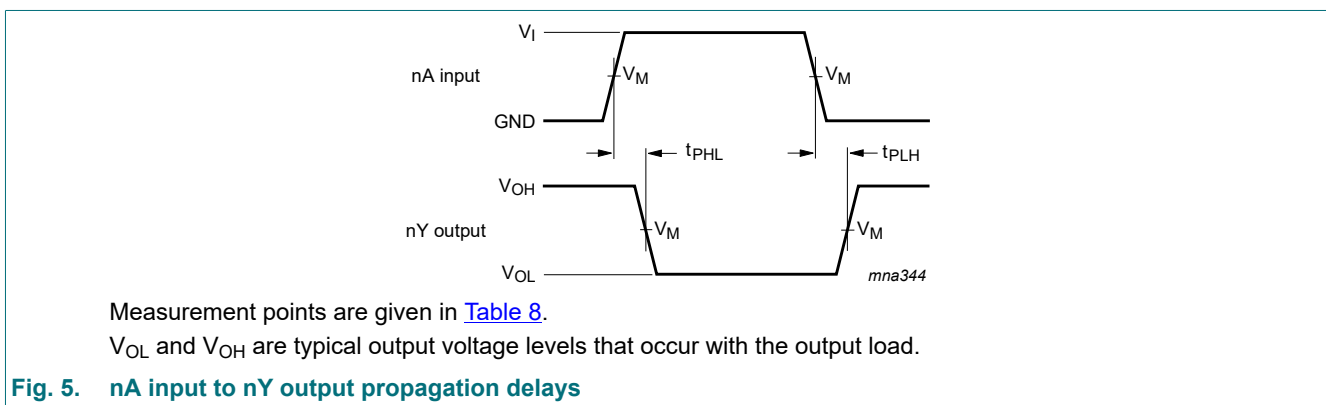
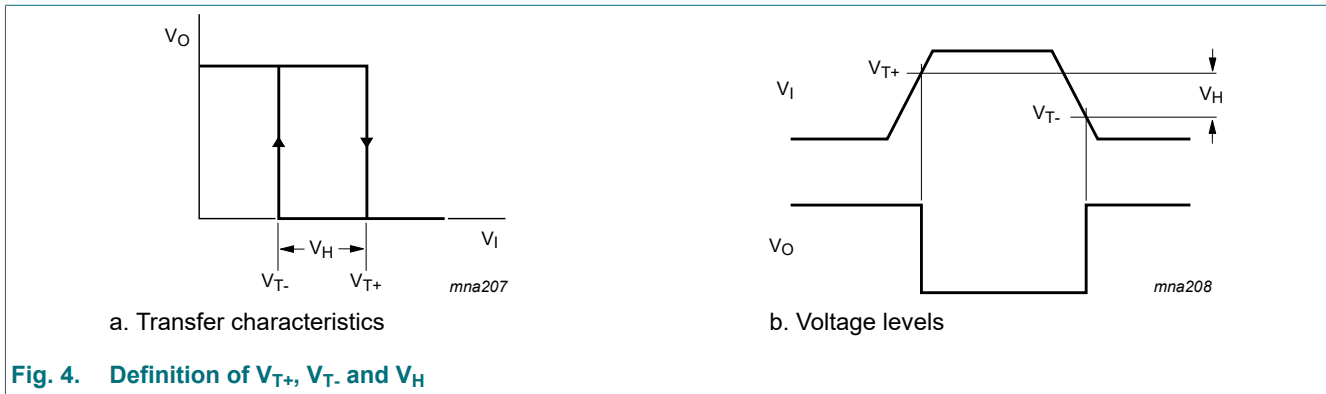
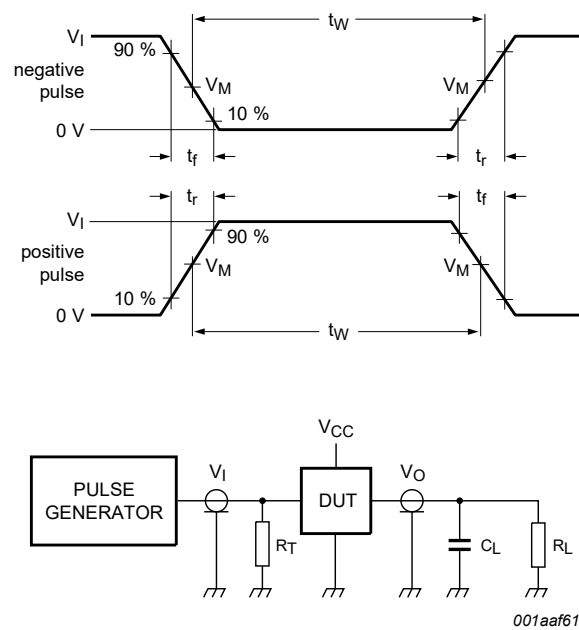


Table 8. Measurement points

| $V_{CC}$       | Input | Output |
|----------------|-------|--------|
|                | $V_M$ | $V_M$  |
| 2.7 V to 3.6 V | 1.5 V | 1.5 V  |





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

Definitions for 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.

**Fig. 6. Test circuit for measuring switching times**

**Table 9. Test data**

| Supply         | Input |               |        |               | Load         |       |
|----------------|-------|---------------|--------|---------------|--------------|-------|
| $V_{CC}$       | $V_I$ | $f_i$         | $t_W$  | $t_r, t_f$    | $R_L$        | $C_L$ |
| 2.7 V to 3.3 V | 2.7 V | $\leq 10$ MHz | 500 ns | $\leq 2.5$ ns | 500 $\Omega$ | 50 pF |

## 11. Package outline

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

SOT108-1

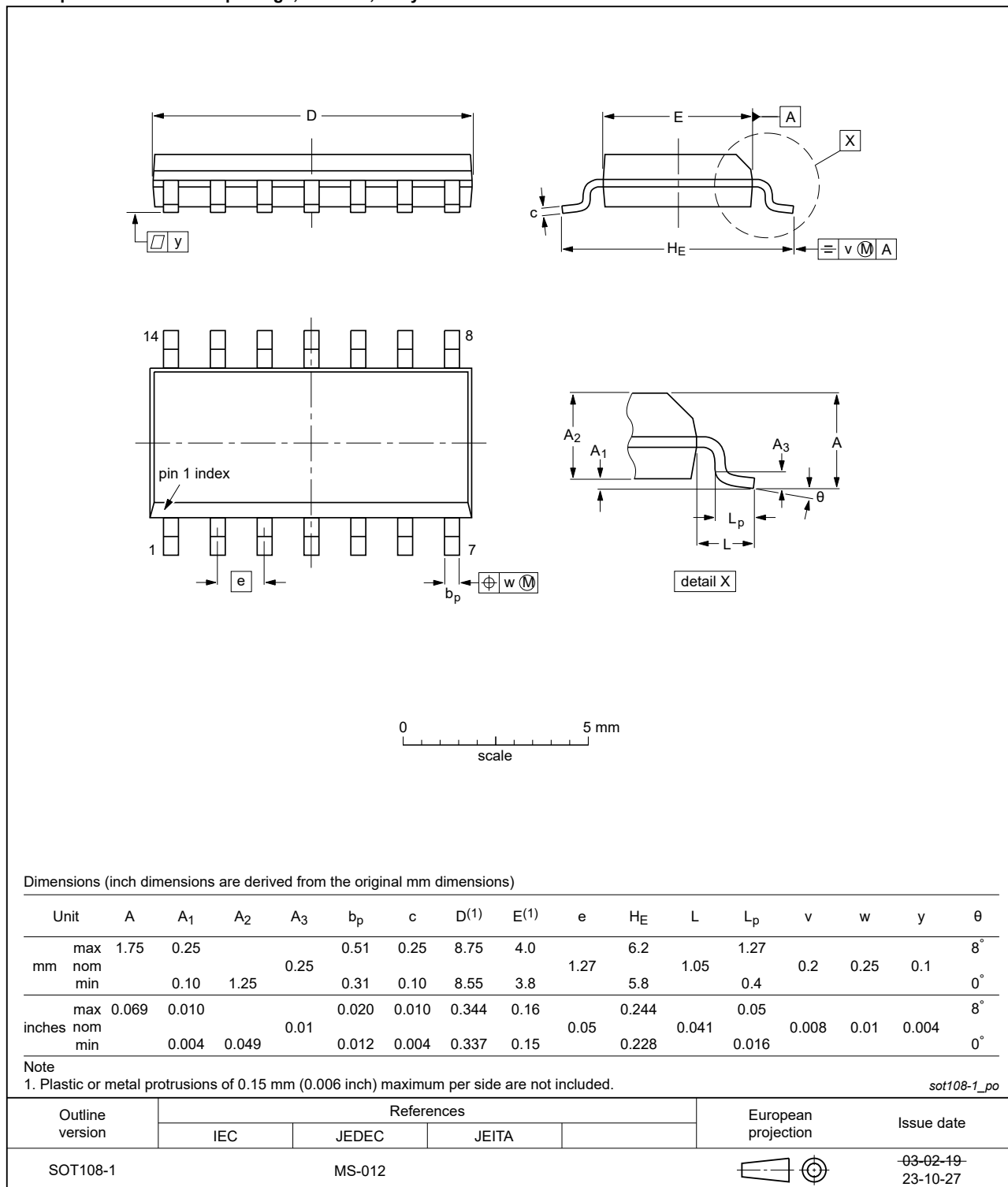


Fig. 7. Package outline SOT108-1 (SO14)

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

SOT402-1

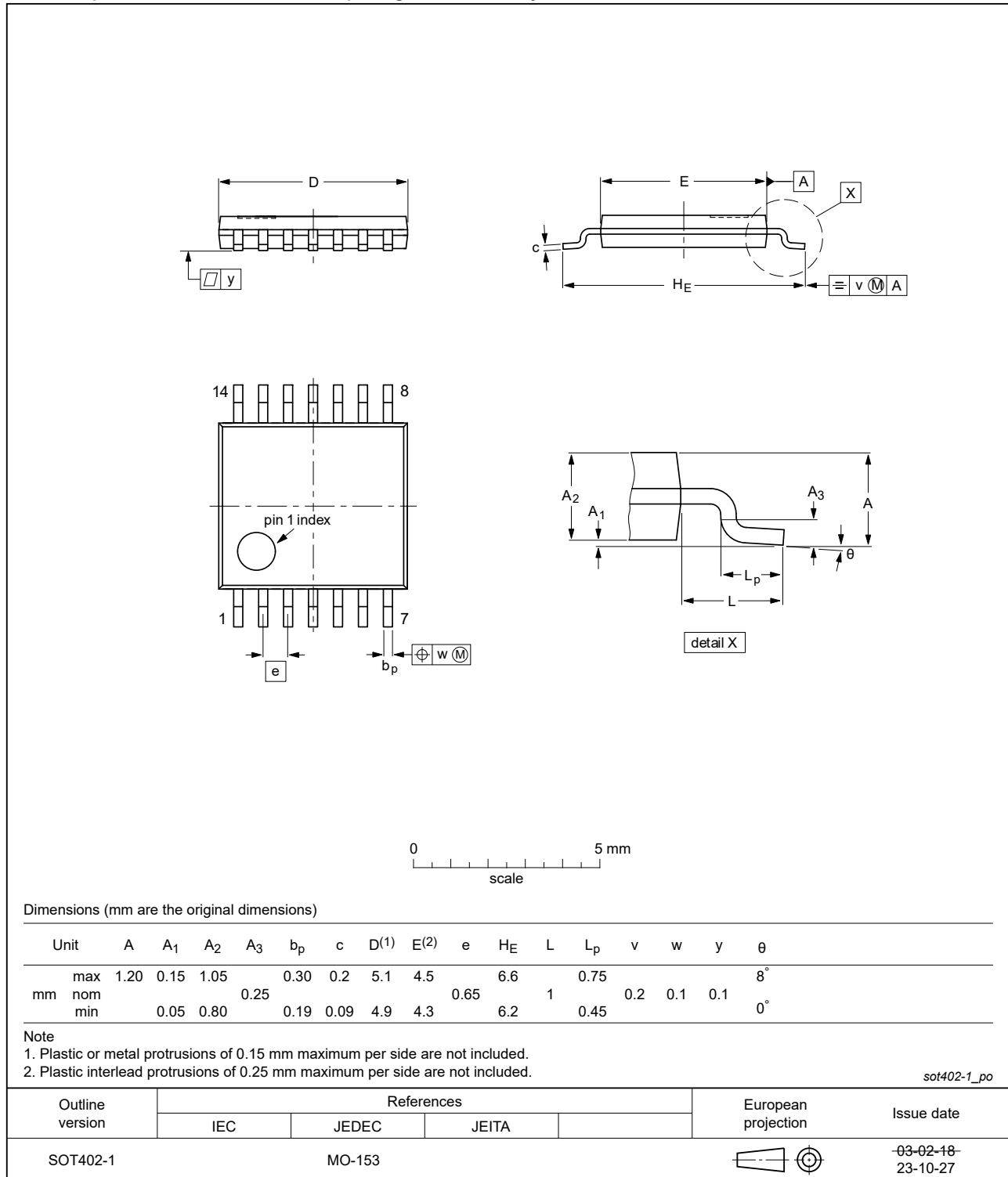
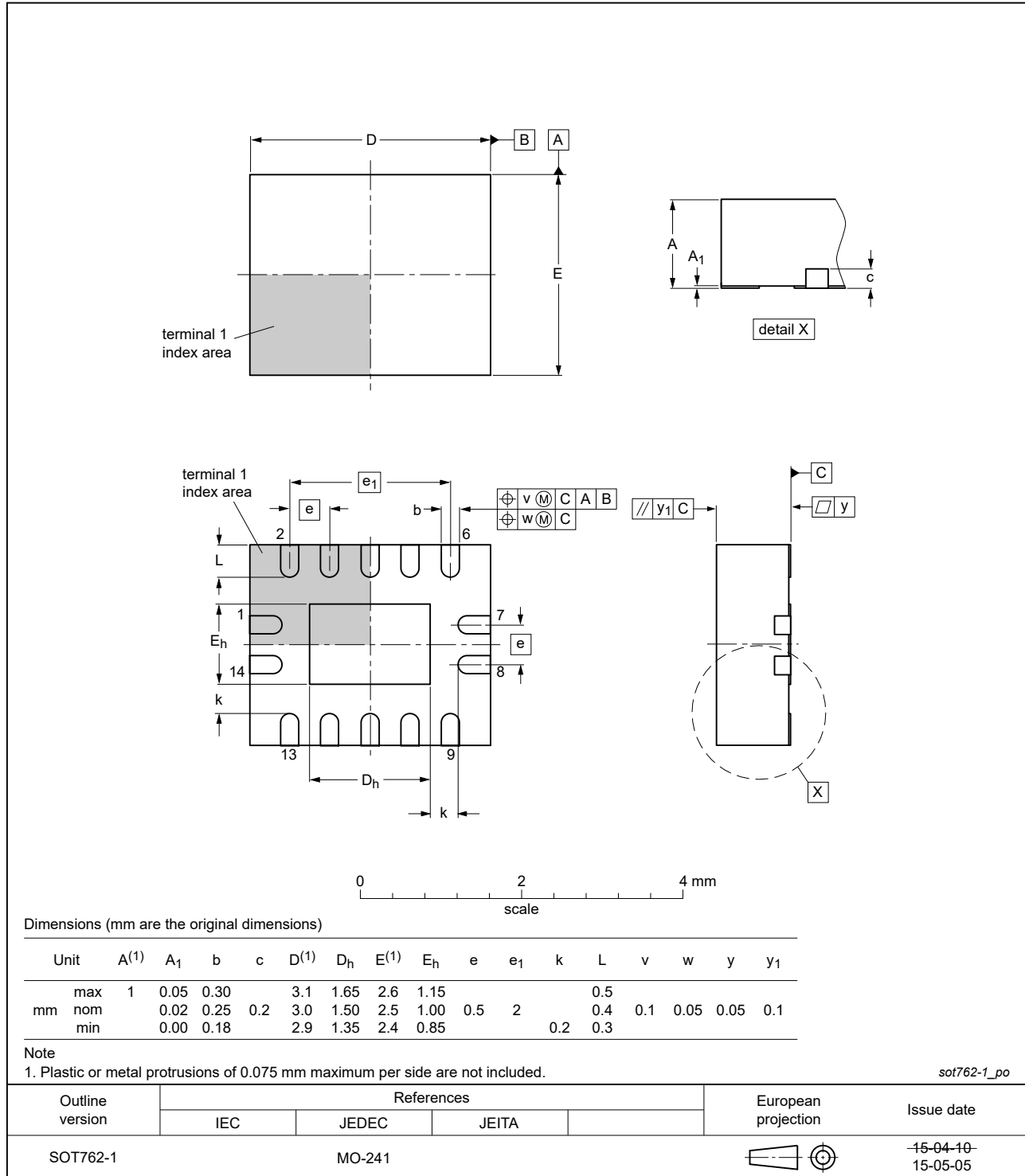


Fig. 8. Package outline SOT402-1 (TSSOP14)

**DHVQFN14:** plastic dual in-line compatible thermal enhanced very thin quad flat package; no leads; 14 terminals; body 2.5 x 3 x 0.85 mm

SOT762-1



**Fig. 9. Package outline SOT762-1 (DHVQFN14)**

## 12. Abbreviations

Table 10. Abbreviations

| Acronym | Description                                     |
|---------|---|
| BiCMOS  | Bipolar Complementary Metal Oxide Semiconductor |
| CDM     | Charged Device Model                            |
| DUT     | Device Under Test                               |
| ESD     | ElectroStatic Discharge                         |
| HBM     | Human Body Model                                |
| TTL     | Transistor-Transistor Logic                     |

## 13. Revision history

Table 11. Revision history

| Document ID    | Release date  | Data sheet status     | Change notice | Supersedes  |
|----------------|---|-----------------------|---------------|-------------|
| 74LVT14 v.5    | 20240125  | Product data sheet    | -             | 74LVT14 v.4 |
| Modifications: | <ul style="list-style-type: none"> <li>• <a href="#">Section 2</a>: ESD specification updated according to the latest JEDEC standard.</li> <li>• <a href="#">Fig. 7</a>, <a href="#">Fig. 8</a>: Aligned SO and TSSOP package outline drawings to JEDEC MS-012 and MO-153</li> </ul>  |                       |               |             |
| 74LVT14 v.4    | 20210728  | Product data sheet    | -             | 74LVT14 v.3 |
| Modifications: | <ul style="list-style-type: none"> <li>• Type number 74LVT14DB (SOT337-1/SSOP14) removed.</li> <li>• <a href="#">Section 1</a> and <a href="#">Section 2</a> updated.</li> <li>• <a href="#">Section 7</a>: Derating values for <math>P_{tot}</math> total power dissipation removed or updated.</li> </ul>   |                       |               |             |
| 74LVT14 v.3    | 20180406  | Product data sheet    | -             | 74LVT14 v.2 |
| Modifications: | <ul style="list-style-type: none"> <li>• The format of this data sheet has been redesigned to comply with the identity guidelines of Nexperia.</li> <li>• Legal texts have been adapted to the new company name where appropriate.</li> </ul>   |                       |               |             |
| 74LVT14 v.2    | 20080425  | Product data sheet    | -             | 74LVT14 v.1 |
| 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 section removed.</li> <li>• DHVQFN14 package added to <a href="#">Section 3</a> and <a href="#">Section 11</a>.</li> <li>• <a href="#">Section 12</a> added.</li> </ul> |                       |               |             |
| 74LVT14 v.1    | 19960828  | Product specification | -             | -           |

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### 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.                                     |

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