

# 74AHC132; 74AHCT132

## Quad 2-input NAND Schmitt trigger

Rev. 9 — 29 February 2024

Product data sheet

## 1. General description

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The 74AHC132; 74AHCT132 is a quad 2-input NAND gate with Schmitt-trigger inputs. Inputs are overvoltage tolerant. This feature allows the use of these devices as translators in mixed voltage environments.

## 2. Features and benefits

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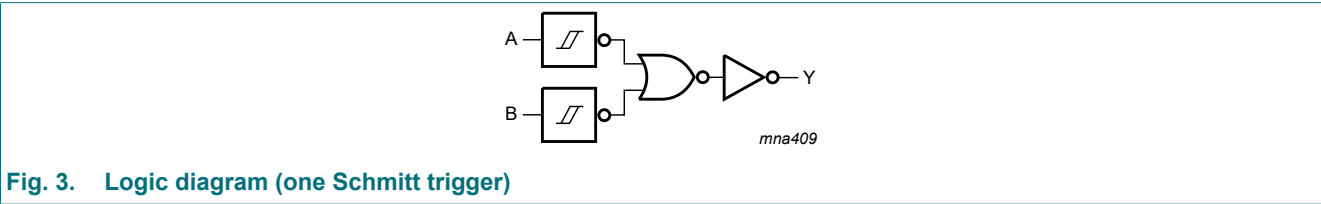
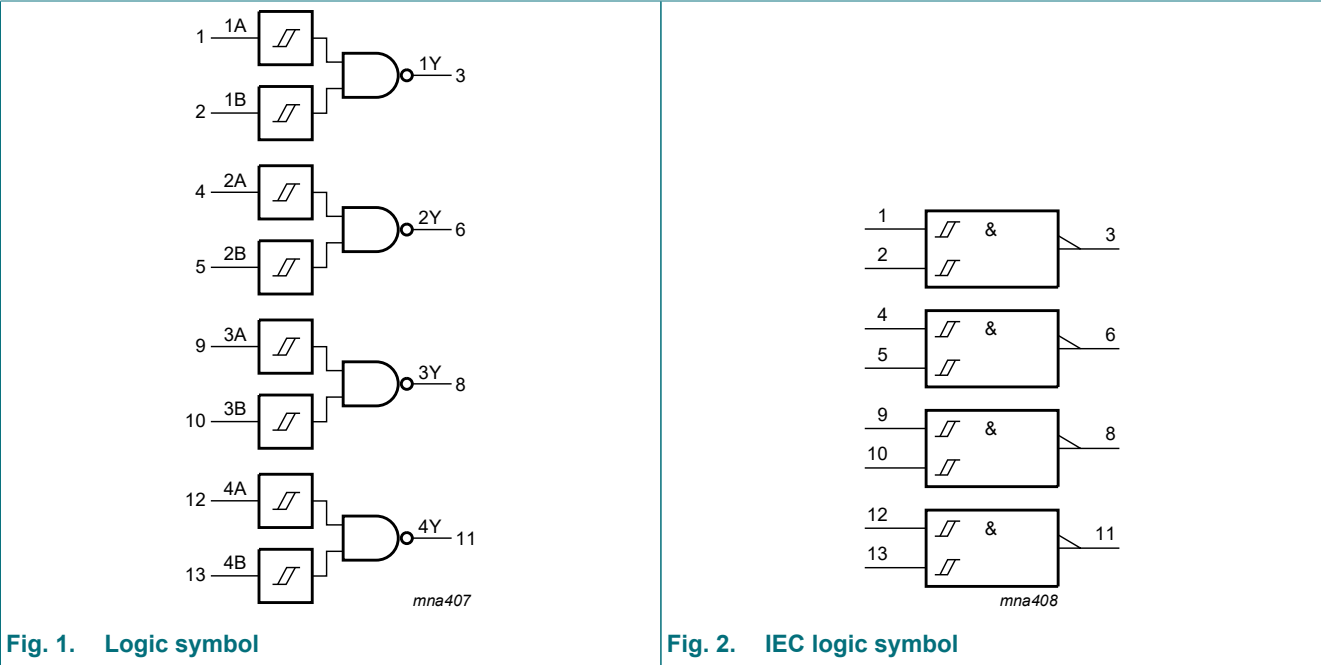
- Wide supply voltage range from 2.0 V to 5.5 V
- Overvoltage tolerant inputs to 5.5 V
- High noise immunity
- CMOS low power dissipation
- Input levels:
  - For 74AHC132: CMOS level
  - For 74AHCT132: TTL level
- Latch-up performance exceeds 100 mA per JESD 78 Class II Level A
- ESD protection:
  - HBM: ANSI/ESDA/JEDEC JS-001 class 2 exceeds 2000 V
  - CDM: ANSI/ESDA/JEDEC JS-002 class C3 exceeds 1000 V
- Multiple package options
- Specified from -40 °C to +85 °C and from -40 °C to +125 °C

3. Ordering information

Table 1. Ordering information

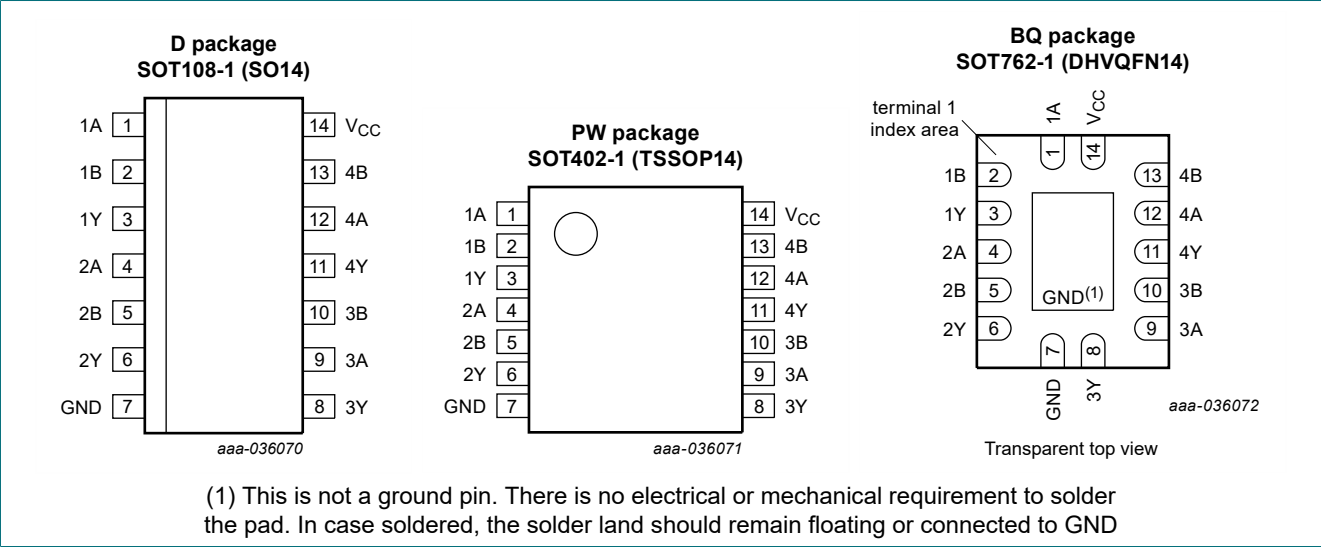
| Type number                                               | Package           |          |                                                                                                                                    |                          |
|-----------------------------------------------------------|-------------------|----------|------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
|                                                           | Temperature range | Name     | Description                                                                                                                        | Version                  |
| <a href="#">74AHC132D</a><br><a href="#">74AHCT132D</a>   | -40 °C to +125 °C | SO14     | plastic small outline package; 14 leads;<br>body width 3.9 mm                                                                      | <a href="#">SOT108-1</a> |
| <a href="#">74AHC132PW</a><br><a href="#">74AHCT132PW</a> | -40 °C to +125 °C | TSSOP14  | plastic thin shrink small outline package; 14 leads;<br>body width 4.4 mm                                                          | <a href="#">SOT402-1</a> |
| <a href="#">74AHC132BQ</a><br><a href="#">74AHCT132BQ</a> | -40 °C to +125 °C | DHVQFN14 | plastic dual in-line compatible thermal<br>enhanced very thin quad flat package; no leads;<br>14 terminals; body 2.5 × 3 × 0.85 mm | <a href="#">SOT762-1</a> |

4. Functional diagram



5. Pinning information

5.1. Pinning



5.2. Pin description

Table 2. Pin description

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

6. Functional description

Table 3. Function table

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

| Input |    | Output |
|-------|----|--------|
| nA    | nB | nY     |
| L     | L  | H      |
| L     | H  | H      |
| H     | L  | H      |
| 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 <sub>CC</sub>  | supply voltage          |                                                                         | -0.5 | +7.0 | V    |
| V <sub>I</sub>   | input voltage           |                                                                         | -0.5 | +7.0 | V    |
| I <sub>IK</sub>  | input clamping current  | V <sub>I</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  | +20  | mA   |
| I <sub>O</sub>   | output current          | V <sub>O</sub> = -0.5 V to (V <sub>CC</sub> + 0.5 V)                    | -25  | +25  | mA   |
| I <sub>CC</sub>  | supply current          |                                                                         | -    | +75  | mA   |
| I <sub>GND</sub> | ground current          |                                                                         | -75  | -    | 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 SOT108-1 (SO14) package: P<sub>tot</sub> derates linearly with 10.1 mW/K above 100 °C.  
For SOT402-1 (TSSOP14) package: P<sub>tot</sub> derates linearly with 7.3 mW/K above 81 °C.  
For SOT762-1 (DHVQFN14) package: P<sub>tot</sub> derates linearly with 9.6 mW/K above 98 °C.

8. Recommended operating conditions

Table 5. Recommended operating conditions

Voltages are referenced to GND (ground = 0 V).

| Symbol           | Parameter                           | Conditions                      | 74AHC132 |     |                 | 74AHCT132 |     |                 | Unit |
|------------------|-------------------------------------|---------------------------------|----------|-----|-----------------|-----------|-----|-----------------|------|
|                  |                                     |                                 | Min      | Typ | Max             | Min       | Typ | Max             |      |
| V <sub>CC</sub>  | supply voltage                      |                                 | 2.0      | 5.0 | 5.5             | 4.5       | 5.0 | 5.5             | V    |
| V <sub>I</sub>   | input voltage                       |                                 | 0        | -   | 5.5             | 0         | -   | 5.5             | V    |
| V <sub>O</sub>   | output voltage                      |                                 | 0        | -   | V <sub>CC</sub> | 0         | -   | V <sub>CC</sub> | V    |
| T <sub>amb</sub> | ambient temperature                 |                                 | -40      | +25 | +125            | -40       | +25 | +125            | °C   |
| Δt/ΔV            | input transition rise and fall rate | V <sub>CC</sub> = 3.3 V ± 0.3 V | -        | -   | 100             | -         | -   | -               | ns/V |
|                  |                                     | V <sub>CC</sub> = 5.0 V ± 0.5 V | -        | -   | 20              | -         | -   | 20              | ns/V |

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  |      |
| 74AHC132         |                           |                                                                                                                                                             |       |     |      |                  |      |                   |      |      |
| V <sub>OH</sub>  | HIGH-level output voltage | V <sub>I</sub> = V <sub>T+</sub> or V <sub>T-</sub>                                                                                                         |       |     |      |                  |      |                   |      |      |
|                  |                           | I <sub>O</sub> = -50 µA; V <sub>CC</sub> = 2.0 V                                                                                                            | 1.9   | 2.0 | -    | 1.9              | 2.2  | 1.9               | -    | V    |
|                  |                           | I <sub>O</sub> = -50 µA; V <sub>CC</sub> = 3.0 V                                                                                                            | 2.9   | 3.0 | -    | 2.9              | 3.15 | 2.9               | -    | V    |
|                  |                           | I <sub>O</sub> = -50 µA; V <sub>CC</sub> = 4.5 V                                                                                                            | 4.4   | 4.5 | -    | 4.4              | 3.85 | 4.4               | -    | V    |
|                  |                           | I <sub>O</sub> = -4.0 mA; V <sub>CC</sub> = 3.0 V                                                                                                           | 2.58  | -   | -    | 2.48             | -    | 2.40              | -    | V    |
|                  |                           | I <sub>O</sub> = -8.0 mA; V <sub>CC</sub> = 4.5 V                                                                                                           | 3.94  | -   | -    | 3.80             | -    | 3.70              | -    | V    |
| V <sub>OL</sub>  | LOW-level output voltage  | V <sub>I</sub> = V <sub>T+</sub> or V <sub>T-</sub>                                                                                                         |       |     |      |                  |      |                   |      |      |
|                  |                           | I <sub>O</sub> = 50 µA; V <sub>CC</sub> = 2.0 V                                                                                                             | -     | 0   | 0.1  | -                | 0.1  | -                 | 0.1  | V    |
|                  |                           | I <sub>O</sub> = 50 µA; V <sub>CC</sub> = 3.0 V                                                                                                             | -     | 0   | 0.1  | -                | 0.1  | -                 | 0.1  | V    |
|                  |                           | I <sub>O</sub> = 50 µA; V <sub>CC</sub> = 4.5 V                                                                                                             | -     | 0   | 0.1  | -                | 0.1  | -                 | 0.1  | V    |
|                  |                           | I <sub>O</sub> = 4.0 mA; V <sub>CC</sub> = 3.0 V                                                                                                            | -     | -   | 0.36 | -                | 0.44 | -                 | 0.55 | V    |
|                  |                           | I <sub>O</sub> = 8.0 mA; V <sub>CC</sub> = 4.5 V                                                                                                            | -     | -   | 0.36 | -                | 0.44 | -                 | 0.55 | V    |
| I <sub>I</sub>   | input leakage current     | V <sub>I</sub> = 5.5 V or GND;<br>V <sub>CC</sub> = 0 V to 5.5 V                                                                                            | -     | -   | 0.1  | -                | 1.0  | -                 | 2.0  | µA   |
| I <sub>CC</sub>  | supply current            | V <sub>I</sub> = V <sub>CC</sub> or GND; I <sub>O</sub> = 0 A;<br>V <sub>CC</sub> = 5.5 V                                                                   | -     | -   | 2.0  | -                | 20   | -                 | 40   | µA   |
| C <sub>I</sub>   | input capacitance         | V <sub>I</sub> = V <sub>CC</sub> or GND                                                                                                                     | -     | 3   | 10   | -                | 10   | -                 | 10   | pF   |
| C <sub>O</sub>   | output capacitance        |                                                                                                                                                             | -     | 4   | -    | -                | -    | -                 | -    | pF   |
| 74AHCT132        |                           |                                                                                                                                                             |       |     |      |                  |      |                   |      |      |
| V <sub>OH</sub>  | HIGH-level output voltage | V <sub>I</sub> = V <sub>T+</sub> or V <sub>T-</sub> ; V <sub>CC</sub> = 4.5 V                                                                               |       |     |      |                  |      |                   |      |      |
|                  |                           | I <sub>O</sub> = -50 µA                                                                                                                                     | 4.4   | 4.5 | -    | 4.4              | -    | 4.4               | -    | V    |
|                  |                           | I <sub>O</sub> = -8.0 mA                                                                                                                                    | 3.94  | -   | -    | 3.80             | -    | 3.70              | -    | V    |
| V <sub>OL</sub>  | LOW-level output voltage  | V <sub>I</sub> = V <sub>T+</sub> or V <sub>T-</sub> ; V <sub>CC</sub> = 4.5 V                                                                               |       |     |      |                  |      |                   |      |      |
|                  |                           | I <sub>O</sub> = 50 µA                                                                                                                                      | -     | 0   | 0.1  | -                | 0.1  | -                 | 0.1  | V    |
|                  |                           | I <sub>O</sub> = 8.0 mA                                                                                                                                     | -     | -   | 0.36 | -                | 0.44 | -                 | 0.55 | V    |
| I <sub>I</sub>   | input leakage current     | V <sub>I</sub> = 5.5 V or GND;<br>V <sub>CC</sub> = 0 V to 5.5 V                                                                                            | -     | -   | 0.1  | -                | 1.0  | -                 | 2.0  | µA   |
| I <sub>CC</sub>  | supply current            | V <sub>I</sub> = V <sub>CC</sub> or GND; I <sub>O</sub> = 0 A;<br>V <sub>CC</sub> = 5.5 V                                                                   | -     | -   | 2.0  | -                | 20   | -                 | 40   | µA   |
| ΔI <sub>CC</sub> | additional supply current | per input pin; V <sub>I</sub> = V <sub>CC</sub> - 2.1 V;<br>other pins at V <sub>CC</sub> or GND;<br>I <sub>O</sub> = 0 A; V <sub>CC</sub> = 4.5 V to 5.5 V | -     | -   | 1.35 | -                | 1.5  | -                 | 1.5  | mA   |
| C <sub>I</sub>   | input capacitance         | V <sub>I</sub> = V <sub>CC</sub> or GND                                                                                                                     | -     | 3   | 10   | -                | 10   | -                 | 10   | pF   |
| C <sub>O</sub>   | output capacitance        |                                                                                                                                                             | -     | 4   | -    | -                | -    | -                 | -    | pF   |

10. Dynamic characteristics

Table 7. Dynamic characteristics

Voltages are referenced to GND (ground = 0 V); for test circuit see Fig. 5.

| Symbol                                      | Parameter                     | Conditions                                                          | 25 °C |        |      | -40 °C to +85 °C |      | -40 °C to +125 °C |      | Unit |
|---------------------------------------------|-------------------------------|---------------------------------------------------------------------|-------|--------|------|------------------|------|-------------------|------|------|
|                                             |                               |                                                                     | Min   | Typ[1] | Max  | Min              | Max  | Min               | Max  |      |
| 74AHC132                                    |                               |                                                                     |       |        |      |                  |      |                   |      |      |
| t <sub>pd</sub>                             | propagation delay             | nA, nB to nY; see Fig. 4 [2]                                        |       |        |      |                  |      |                   |      |      |
|                                             |                               | V <sub>CC</sub> = 3.0 V to 3.6 V                                    |       |        |      |                  |      |                   |      |      |
|                                             |                               | C <sub>L</sub> = 15 pF                                              | -     | 4.4    | 11.9 | 1.0              | 14.0 | 1.0               | 15.0 | ns   |
|                                             |                               | C <sub>L</sub> = 50 pF                                              | -     | 6.2    | 15.4 | 1.0              | 17.5 | 1.0               | 19.5 | ns   |
|                                             |                               | V <sub>CC</sub> = 4.5 V to 5.5 V                                    |       |        |      |                  |      |                   |      |      |
|                                             |                               | C <sub>L</sub> = 15 pF                                              | -     | 3.3    | 7.7  | 1.0              | 9.0  | 1.0               | 10.0 | ns   |
| C <sub>L</sub> = 50 pF                      | -                             | 4.7                                                                 | 9.7   | 1.0    | 11.0 | 1.0              | 12.5 | ns                |      |      |
| C <sub>PD</sub>                             | power dissipation capacitance | f <sub>i</sub> = 1 MHz; V <sub>I</sub> = GND to V <sub>CC</sub> [3] | -     | 11     | -    | -                | -    | -                 | -    | pF   |
| 74AHCT132; V <sub>CC</sub> = 4.5 V to 5.5 V |                               |                                                                     |       |        |      |                  |      |                   |      |      |
| t <sub>pd</sub>                             | propagation delay             | nA, nB to nY; see Fig. 4 [2]                                        |       |        |      |                  |      |                   |      |      |
|                                             |                               | C <sub>L</sub> = 15 pF                                              | -     | 3.5    | 7.0  | 1.0              | 8.0  | 1.0               | 9.0  | ns   |
|                                             |                               | C <sub>L</sub> = 50 pF                                              | -     | 5.0    | 8.0  | 1.0              | 9.0  | 1.0               | 10.0 | ns   |
| C <sub>PD</sub>                             | power dissipation capacitance | f <sub>i</sub> = 1 MHz; V <sub>I</sub> = GND to V <sub>CC</sub> [3] | -     | 14     | -    | -                | -    | -                 | -    | pF   |

[1] Typical values are measured at nominal supply voltage (V<sub>CC</sub> = 3.3 V and V<sub>CC</sub> = 5.0 V).

[2] t<sub>pd</sub> is the same as t<sub>PLH</sub> and t<sub>PHL</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;

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

10.1. Waveform and test circuit

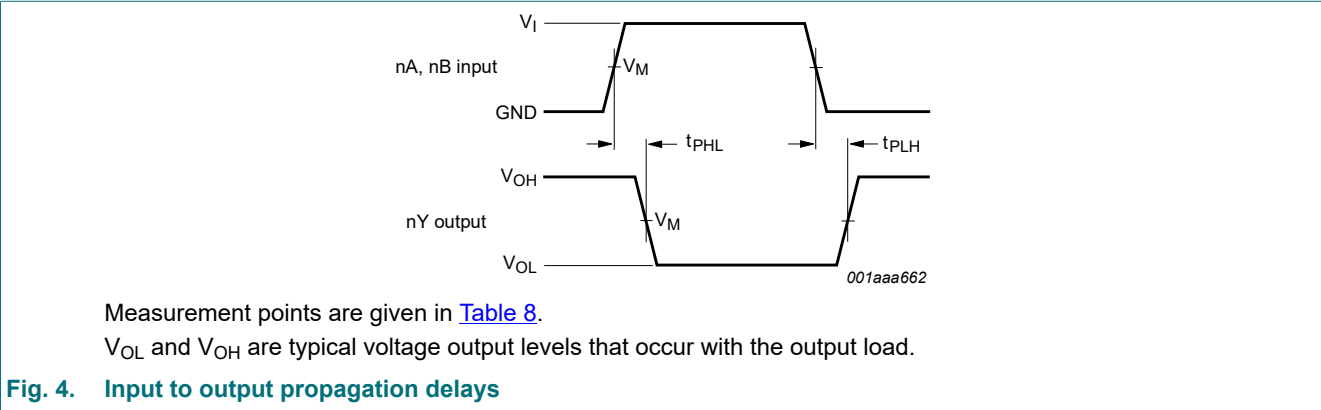


Table 8. Measurement points

| Type      | Input               | Output              |
|-----------|---------------------|---------------------|
|           | $V_M$               | $V_M$               |
| 74AHC132  | $0.5 \times V_{CC}$ | $0.5 \times V_{CC}$ |
| 74AHCT132 | 1.5 V               | $0.5 \times V_{CC}$ |

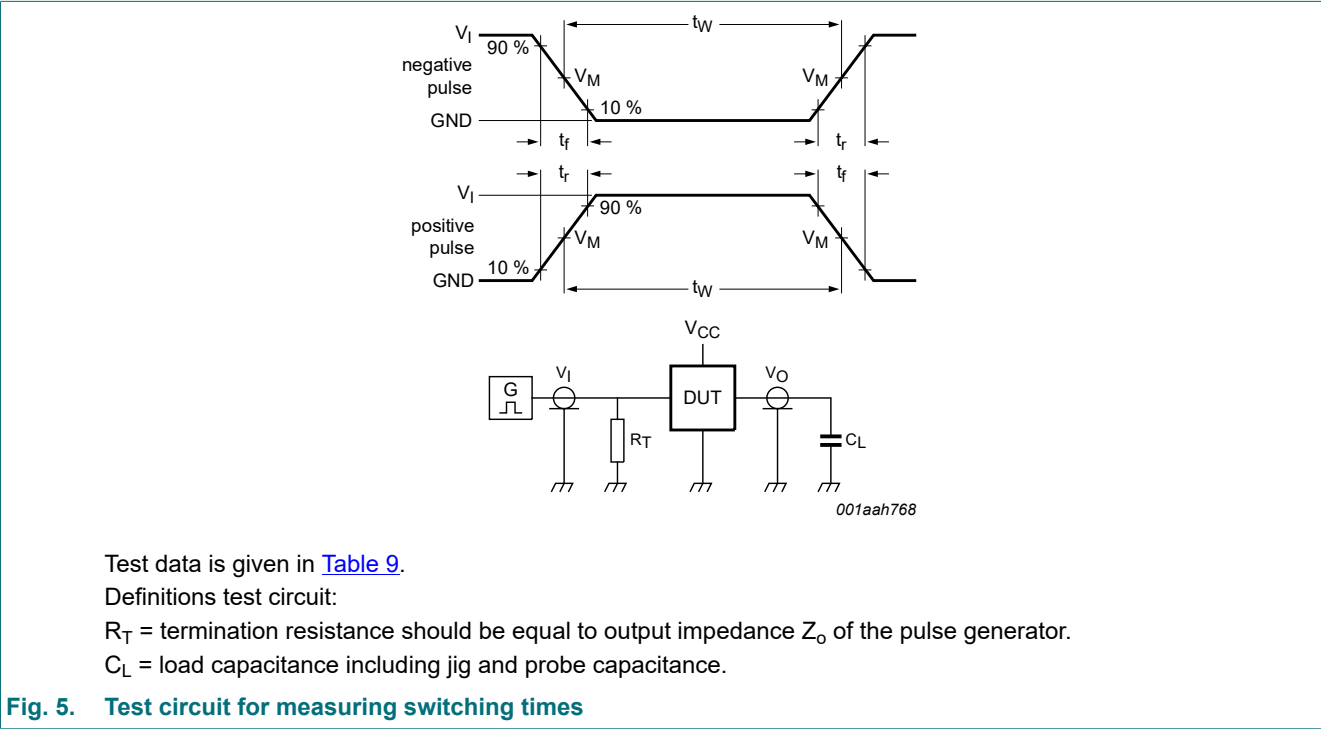


Table 9. Test data

| Type      | Input    |                       | Load         | Test               |
|-----------|----------|-----------------------|--------------|--------------------|
|           | $V_I$    | $t_r, t_f$            | $C_L$        |                    |
| 74AHC132  | $V_{CC}$ | $\leq 3.0 \text{ ns}$ | 50 pF, 15 pF | $t_{PLH}, t_{PHL}$ |
| 74AHCT132 | 3.0 V    | $\leq 3.0 \text{ ns}$ | 50 pF, 15 pF | $t_{PLH}, t_{PHL}$ |

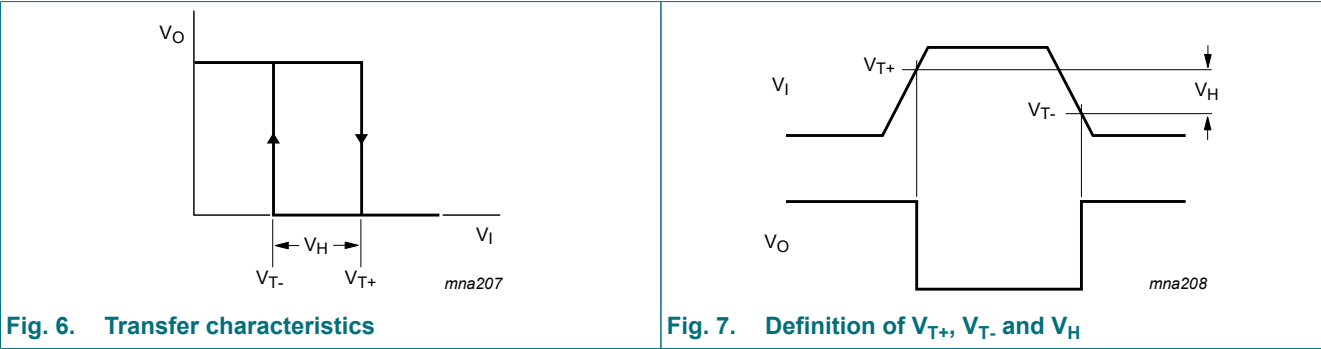
11. Transfer characteristics

Table 10. Transfer 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  |      |
| 74AHC132        |                                  |                         |       |     |      |                  |      |                   |      |      |
| V <sub>T+</sub> | positive-going threshold voltage | V <sub>CC</sub> = 3.0 V | -     | -   | 2.2  | -                | 2.2  | -                 | 2.2  | V    |
|                 |                                  | V <sub>CC</sub> = 4.5 V | -     | -   | 3.15 | -                | 3.15 | -                 | 3.15 | V    |
|                 |                                  | V <sub>CC</sub> = 5.5 V | -     | -   | 3.85 | -                | 3.85 | -                 | 3.85 | V    |
| V <sub>T-</sub> | negative-going threshold voltage | V <sub>CC</sub> = 3.0 V | 0.9   | -   | -    | 0.9              | -    | 0.9               | -    | V    |
|                 |                                  | V <sub>CC</sub> = 4.5 V | 1.35  | -   | -    | 1.35             | -    | 1.35              | -    | V    |
|                 |                                  | V <sub>CC</sub> = 5.5 V | 1.65  | -   | -    | 1.65             | -    | 1.65              | -    | V    |
| V <sub>H</sub>  | hysteresis voltage               | V <sub>CC</sub> = 3.0 V | 0.3   | -   | 1.2  | 0.3              | 1.2  | 0.25              | 1.2  | V    |
|                 |                                  | V <sub>CC</sub> = 4.5 V | 0.4   | -   | 1.4  | 0.4              | 1.4  | 0.35              | 1.4  | V    |
|                 |                                  | V <sub>CC</sub> = 5.5 V | 0.5   | -   | 1.6  | 0.5              | 1.6  | 0.45              | 1.6  | V    |
| 74AHCT132       |                                  |                         |       |     |      |                  |      |                   |      |      |
| V <sub>T+</sub> | positive-going threshold voltage | V <sub>CC</sub> = 4.5 V | -     | -   | 1.9  | -                | 1.9  | -                 | 1.9  | V    |
|                 |                                  | V <sub>CC</sub> = 5.5 V | -     | -   | 2.1  | -                | 2.1  | -                 | 2.1  | V    |
| V <sub>T-</sub> | negative-going threshold voltage | V <sub>CC</sub> = 4.5 V | 0.5   | -   | -    | 0.5              | -    | 0.5               | -    | V    |
|                 |                                  | V <sub>CC</sub> = 5.5 V | 0.6   | -   | -    | 0.6              | -    | 0.6               | -    | V    |
| V <sub>H</sub>  | hysteresis voltage               | V <sub>CC</sub> = 4.5 V | 0.3   | -   | 1.4  | 0.3              | 1.4  | 0.3               | 1.4  | V    |
|                 |                                  | V <sub>CC</sub> = 5.5 V | 0.3   | -   | 1.5  | 0.3              | 1.5  | 0.3               | 1.5  | V    |

11.1. Transfer characteristics waveforms





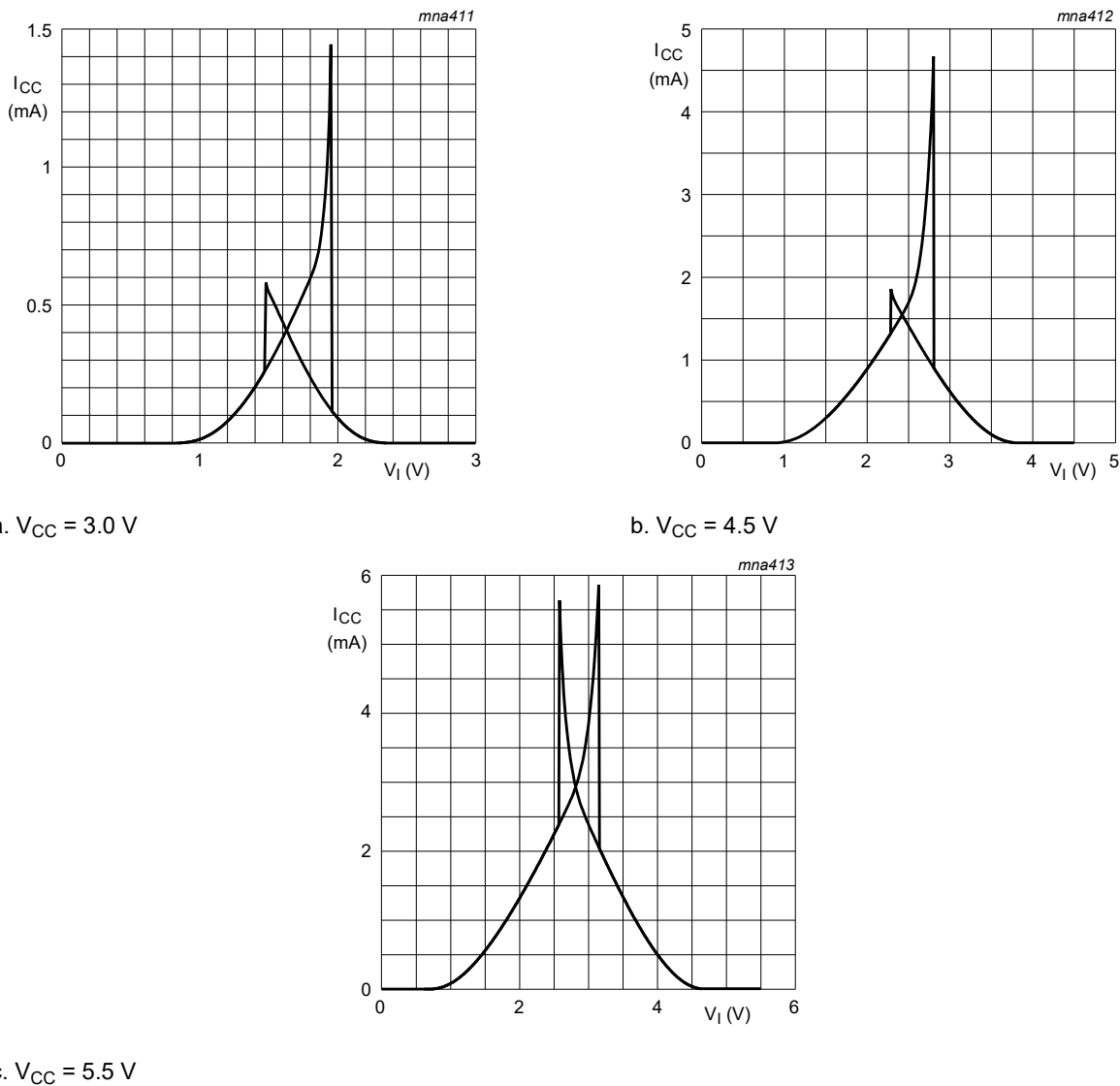


Fig. 8. Typical 74AHC132 transfer characteristics

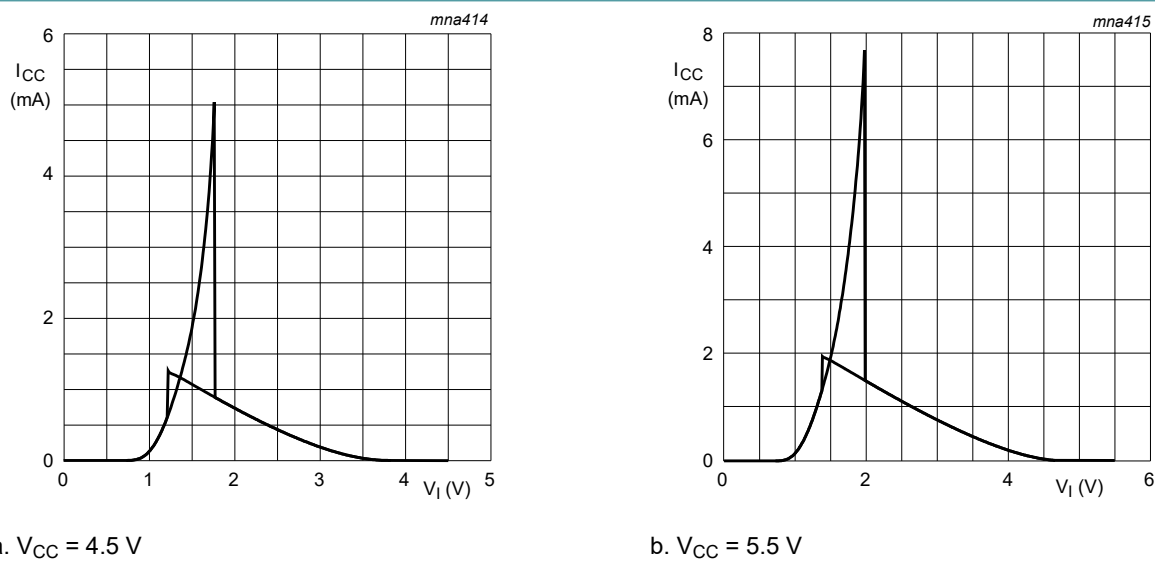
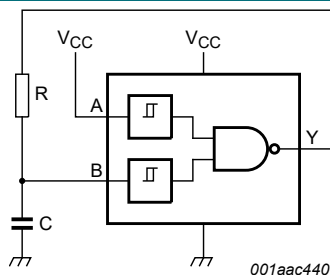


Fig. 9. Typical 74AHCT132 transfer characteristics

## 12. Application information



For 74AHC132:  $f = \frac{1}{T} \approx \frac{1}{0.55 \times RC}$

For 74AHCT132:  $f = \frac{1}{T} \approx \frac{1}{0.60 \times RC}$

Fig. 10. Relaxation oscillator

13. Package outline

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

SOT108-1

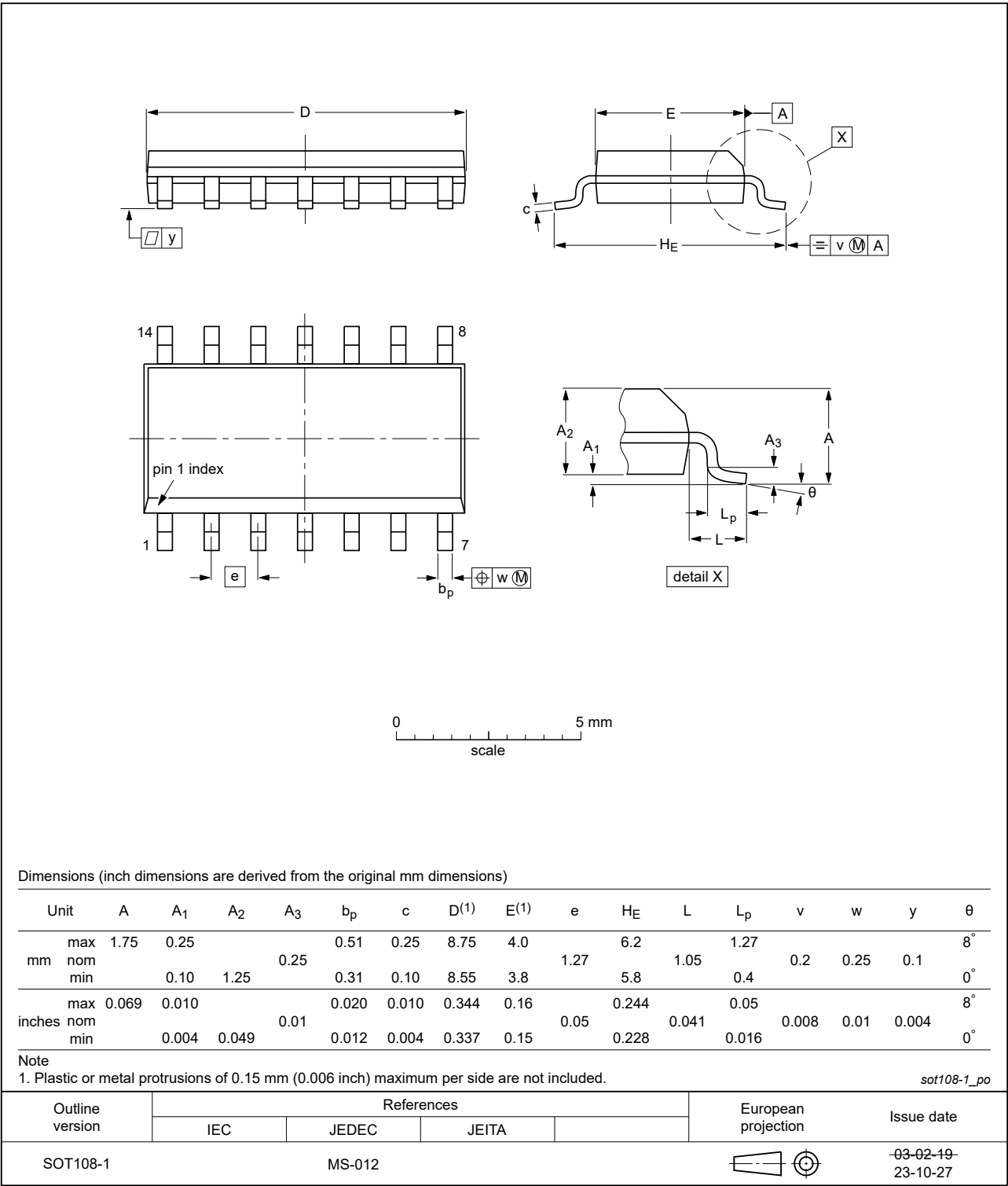


Fig. 11. Package outline SOT108-1 (SO14)

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

SOT402-1

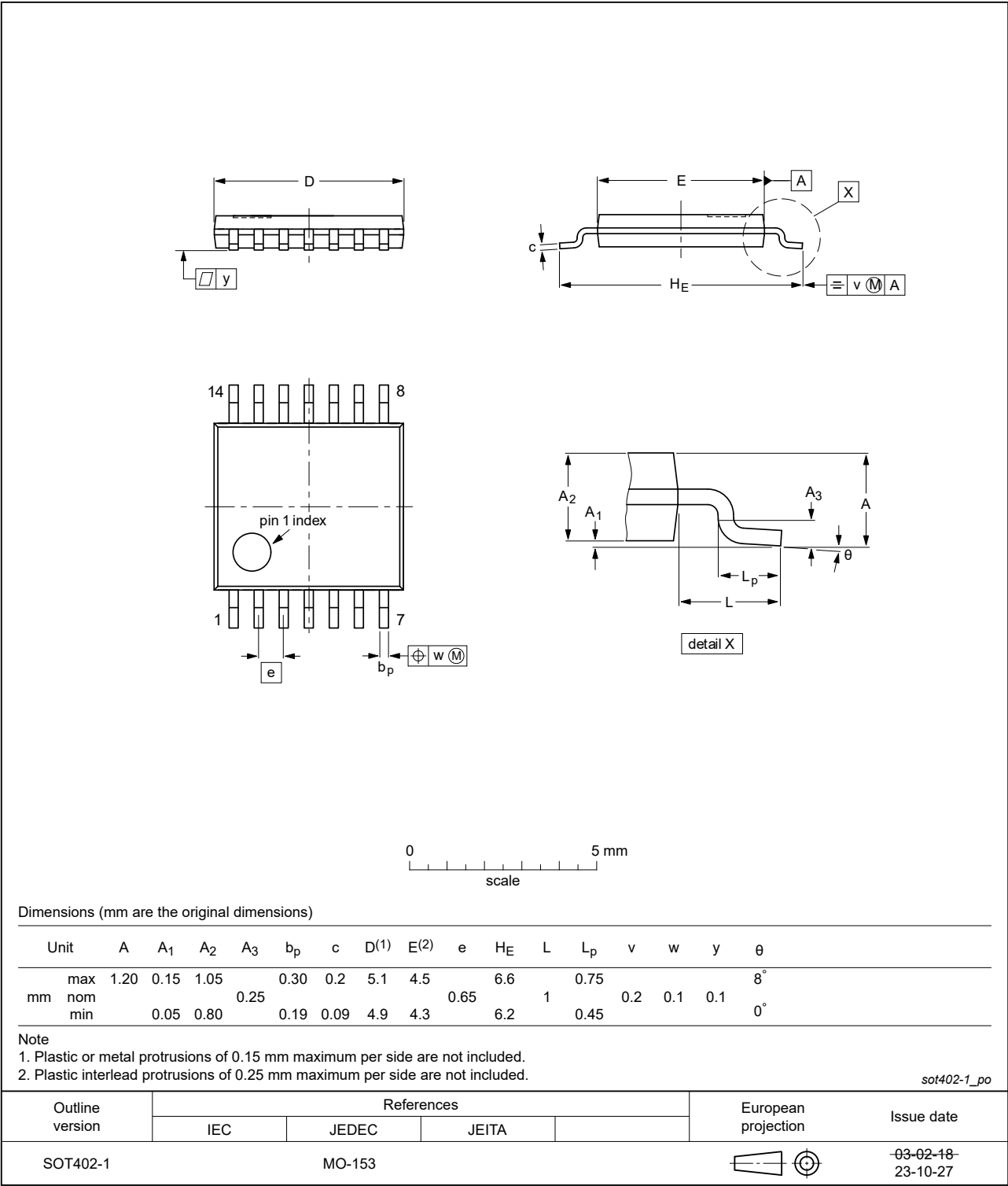
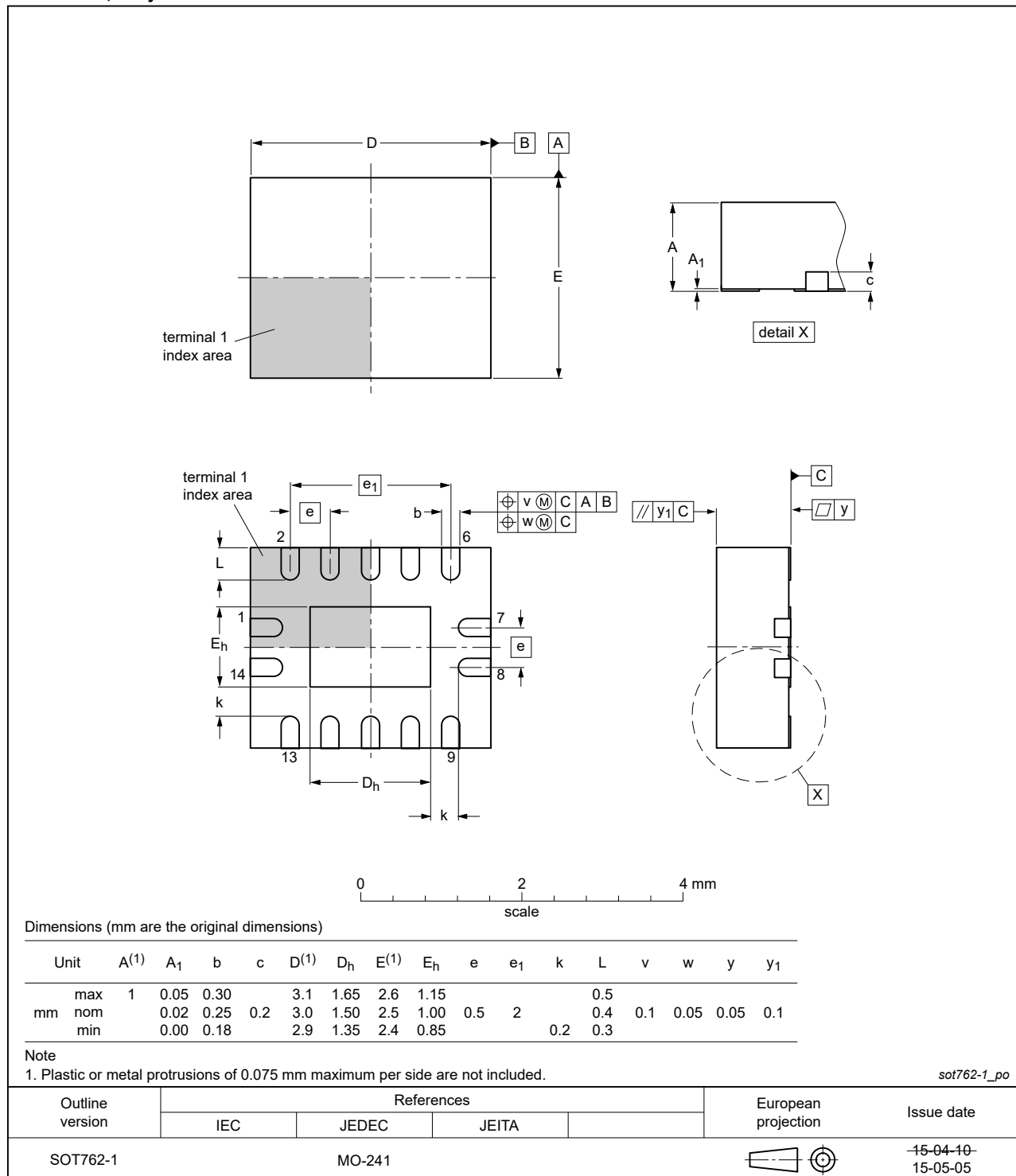


Fig. 12. Package outline SOT402-1 (TSSOP14)

**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. 13. Package outline SOT762-1 (DHVQFN14)**

14. Abbreviations

Table 11. Abbreviations

| Acronym | Description                             |
|---------|-----------------------------------------|
| CDM     | Charged Device Model                    |
| CMOS    | Complementary Metal-Oxide Semiconductor |
| DUT     | Device Under Test                       |
| ESD     | ElectroStatic Discharge                 |
| HBM     | Human Body Model                        |

15. Revision history

Table 12. Revision history

| Document ID       | Release date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Data sheet status     | Change notice | Supersedes        |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|---------------|-------------------|
| 74AHC_AHCT132 v.9 | 20240229                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Product data sheet    | -             | 74AHC_AHCT132 v.8 |
| Modifications:    | <ul style="list-style-type: none"><li><a href="#">Fig. 11</a>, <a href="#">Fig. 12</a>: Aligned SO and TSSOP package outline drawings to JEDEC MS-012 and MO-153.</li></ul>                                                                                                                                                                                                                                                                                                                          |                       |               |                   |
| 74AHC_AHCT132 v.8 | 20230904                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Product data sheet    | -             | 74AHC_AHCT132 v.7 |
| Modifications:    | <ul style="list-style-type: none"><li><a href="#">Section 2</a>: ESD specification updated according to the latest JEDEC standard.</li></ul>                                                                                                                                                                                                                                                                                                                                                         |                       |               |                   |
| 74AHC_AHCT132 v.7 | 20200703                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Product data sheet    | -             | 74AHC_AHCT132 v.6 |
| 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><li><a href="#">Section 1</a> and <a href="#">Section 2</a> updated.</li><li><a href="#">Table 4</a>: Derating values for P<sub>tot</sub> total power dissipation updated.</li><li>Package outline drawing of SOT762-1 (<a href="#">Fig. 13</a>) updated.</li></ul> |                       |               |                   |
| 74AHC_AHCT132 v.6 | 20090504                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Product data sheet    | -             | 74AHC_AHCT132 v.5 |
| Modifications:    | <ul style="list-style-type: none"><li><a href="#">Table 6</a>: the conditions for HIGH-level output voltage and LOW-level output voltage have been changed.</li></ul>                                                                                                                                                                                                                                                                                                                                |                       |               |                   |
| 74AHC_AHCT132 v.5 | 20080509                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Product data sheet    | -             | 74AHC_AHCT132 v.4 |
| 74AHC_AHCT132 v.4 | 20050207                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Product data sheet    | -             | 74AHC_AHCT132 v.3 |
| 74AHC_AHCT132 v.3 | 20040415                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Product specification | -             | 74AHC_AHCT132 v.2 |
| 74AHC_AHCT132 v.2 | 19990924                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Product specification | -             | 74AHC_AHCT132 v.1 |
| 74AHC_AHCT132 v.1 | 19990531                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Product specification | -             | -                 |

## 16. 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.                                     |

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- [2] The term 'short data sheet' is explained in section "Definitions".
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For sales office addresses, please send an email to: [salesaddresses@nexperia.com](mailto:salesaddresses@nexperia.com)

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