

# 74LV32A

## Quad 2-input OR gate

Rev. 1 — 19 December 2018

Product data sheet

### 1. General description

The 74LV32A is a quad 2-input OR gate.

Inputs are overvoltage tolerant. This feature allows the use of these devices as translators in mixed voltage environments.

Schmitt-trigger action at all inputs makes the circuit tolerant of slower input rise and fall times.

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

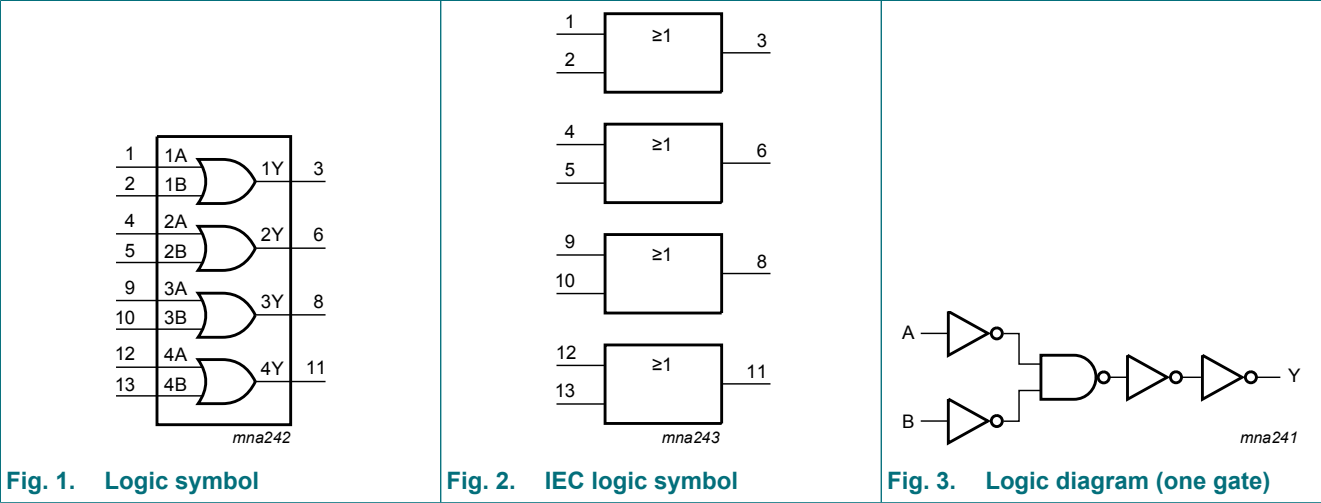
- Wide supply voltage range from 2.0 V to 5.5 V
- Maximum  $t_{pd}$  of 9.5 ns at 5 V
- Typical  $V_{OL(p)} < 0.8$  V at  $V_{CC} = 3.3$  V,  $T_{amb} = 25$  °C
- Typical  $V_{OH(v)} > 2.3$  V at  $V_{CC} = 3.3$  V,  $T_{amb} = 25$  °C
- Supports mixed-mode voltage operation on all ports
- $I_{OFF}$  circuitry provides partial Power-down mode operation
- Latch-up performance exceeds 250 mA per JESD 78 Class II
- ESD protection:
  - MM: MM JESD22-A115-B exceeds 200 V
  - HBM: ANSI/ESDA/JEDEC JS-001 Class 3A exceeds 4 kV
  - CDM: ANSI/ESDA/JEDEC JS-002 class C3 exceeds 2 kV
- Specified from -40 °C to +85 °C and from -40 °C to +125 °C

### 3. Ordering information

Table 1. Ordering information

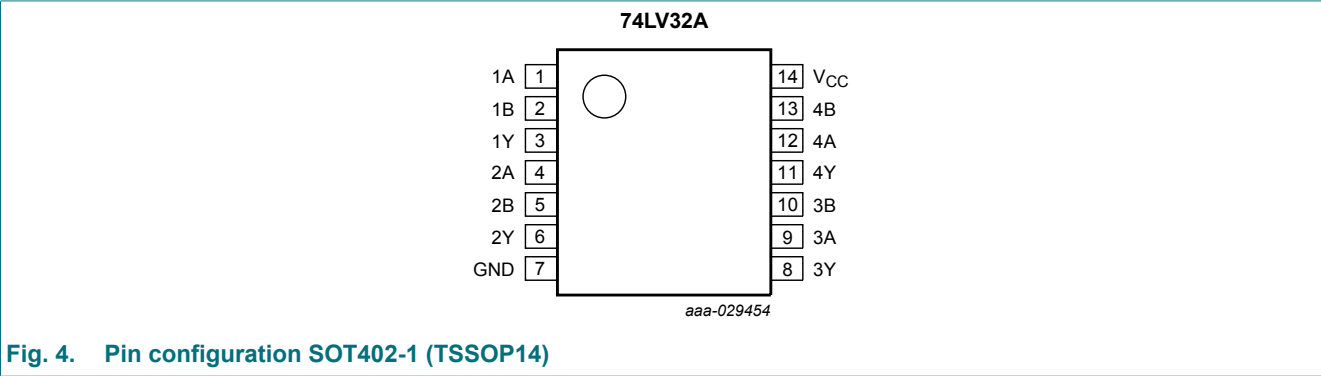
| Type number | Package           |         |                                                                        |          |
|-------------|-------------------|---------|------------------------------------------------------------------------|----------|
|             | Temperature range | Name    | Description                                                            | Version  |
| 74LV32APW   | -40 °C to +125 °C | TSSOP14 | plastic thin shrink small outline package; 14 leads; body width 4.4 mm | SOT402-1 |

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     |
| 1B, 2B, 3B, 4B  | 2, 5, 10, 13 | data input     |
| 1Y, 2Y, 3Y, 4Y  | 3, 6, 8, 11  | data output    |
| 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; X = don't care.*

| Input |    | Output |
|-------|----|--------|
| nA    | nB | nY     |
| L     | L  | L      |
| X     | H  | H      |
| H     | X  | H      |

## 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     | +7.0           | V    |
| $V_I$     | input voltage           |                               | [1] -0.5 | +7.0           | V    |
| $V_O$     | output voltage          | output HIGH or LOW state      | [2] -0.5 | $V_{CC} + 0.5$ | V    |
|           |                         | output power-down             | [2] -0.5 | +7.0           | V    |
| $I_{IK}$  | input clamping current  | $V_I < 0$ V                   | -20      | -              | mA   |
| $I_{OK}$  | output clamping current | $V_O < 0$ V                   | -50      | -              | mA   |
| $I_O$     | output current          | $V_O = 0$ V to $V_{CC}$       | -        | ±35            | mA   |
| $I_{CC}$  | supply current          |                               | -        | 70             | mA   |
| $I_{GND}$ | ground current          |                               | -70      | -              | mA   |
| $T_{stg}$ | storage temperature     |                               | -65      | +150           | °C   |
| $P_{tot}$ | total power dissipation | $T_{amb} = -40$ °C to +125 °C | [4] -    | 500            | mW   |

[1] If the input current ratings are observed, the minimum input voltage ratings may be exceeded.

[2] If the output current ratings are observed, the output voltage ratings may be exceeded.

[3] This value is limited to 7 V maximum.

[4] For SOT402-1 package: above 116 °C, the value of  $P_{tot}$  derates linearly at 7.3 mW/K.

## 8. Recommended operating conditions

**Table 5. Recommended operating conditions**

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

| Symbol              | Parameter                           | Conditions                                 | Min | Typ | Max      | Unit |
|---------------------|-------------------------------------|--------------------------------------------|-----|-----|----------|------|
| $V_{CC}$            | supply voltage                      |                                            | 2.0 | 5.0 | 5.5      | V    |
| $V_I$               | input voltage                       |                                            | 0   | -   | 5.5      | V    |
| $V_O$               | output voltage                      | output HIGH or LOW state                   | 0   | -   | $V_{CC}$ | V    |
|                     |                                     | output power-down                          | 0   | -   | 5.5      | V    |
| $T_{amb}$           | ambient temperature                 |                                            | -40 | +25 | +125     | °C   |
| $\Delta t/\Delta V$ | input transition rise and fall rate | $V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$ | -   | -   | 200      | ns/V |
|                     |                                     | $V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$ | -   | -   | 100      | ns/V |
|                     |                                     | $V_{CC} = 4.5 \text{ V to } 5.5 \text{ V}$ | -   | -   | 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         |               |
| $V_{IH}$  | HIGH-level input voltage  | $V_{CC} = 2 \text{ V}$                                                     | 1.5          | -   | -           | 1.5              | -           | -                 | -           | V             |
|           |                           | $V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$                                 | $0.7V_{CC}$  | -   | -           | $0.7V_{CC}$      | -           | -                 | -           | V             |
|           |                           | $V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$                                 | $0.7V_{CC}$  | -   | -           | $0.7V_{CC}$      | -           | -                 | -           | V             |
|           |                           | $V_{CC} = 4.5 \text{ V to } 5.5 \text{ V}$                                 | $0.7V_{CC}$  | -   | -           | $0.7V_{CC}$      | -           | -                 | -           | V             |
| $V_{IL}$  | LOW-level input voltage   | $V_{CC} = 2 \text{ V}$                                                     | -            | -   | 0.5         | -                | 0.5         | -                 | 0.5         | V             |
|           |                           | $V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$                                 | -            | -   | $0.3V_{CC}$ | -                | $0.3V_{CC}$ | -                 | $0.3V_{CC}$ | V             |
|           |                           | $V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$                                 | -            | -   | $0.3V_{CC}$ | -                | $0.3V_{CC}$ | -                 | $0.3V_{CC}$ | V             |
|           |                           | $V_{CC} = 4.5 \text{ V to } 5.5 \text{ V}$                                 | -            | -   | $0.3V_{CC}$ | -                | $0.3V_{CC}$ | -                 | $0.3V_{CC}$ | V             |
| $V_{OH}$  | HIGH-level output voltage | $V_I = V_{IH} \text{ or } V_{IL}$                                          |              |     |             |                  |             |                   |             |               |
|           |                           | $V_{CC} = 2.0 \text{ V to } 5.5 \text{ V}; I_O = -50 \mu\text{A}$          | $V_{CC}-0.1$ | -   | -           | $V_{CC}-0.1$     | -           | $V_{CC}-0.1$      | -           | V             |
|           |                           | $V_{CC} = 2.3 \text{ V}; I_O = -2 \text{ mA}$                              | 2            | -   | -           | 2                | -           | 2                 | -           | V             |
|           |                           | $V_{CC} = 3.0 \text{ V}; I_O = -6 \text{ mA}$                              | 2.48         | -   | -           | 2.48             | -           | 2.48              | -           | V             |
|           |                           | $V_{CC} = 4.5 \text{ V}; I_O = -12 \text{ mA}$                             | 3.8          | -   | -           | 3.8              | -           | 3.8               | -           | V             |
| $V_{OL}$  | LOW-level output voltage  | $V_I = V_{IH} \text{ or } V_{IL}$                                          |              |     |             |                  |             |                   |             |               |
|           |                           | $V_{CC} = 2.0 \text{ V to } 5.5 \text{ V}; I_O = 50 \mu\text{A}$           | -            | -   | 0.1         | -                | 0.1         | -                 | 0.1         | V             |
|           |                           | $V_{CC} = 2.3 \text{ V}; I_O = 2 \text{ mA}$                               | -            | -   | 0.4         | -                | 0.4         | -                 | 0.4         | V             |
|           |                           | $V_{CC} = 3.0 \text{ V}; I_O = 6 \text{ mA}$                               | -            | -   | 0.44        | -                | 0.44        | -                 | 0.44        | V             |
|           |                           | $V_{CC} = 4.5 \text{ V}; I_O = 12 \text{ mA}$                              | -            | -   | 0.55        | -                | 0.55        | -                 | 0.55        | V             |
| $I_{OFF}$ | power-off leakage current | $V_I \text{ or } V_O = \text{GND to } 5.5 \text{ V}; V_{CC} = 0 \text{ V}$ | -            | -   | 0.5         | -                | 5           | -                 | 5           | $\mu\text{A}$ |
| $I_I$     | input leakage current     | $V_I = V_{CC} \text{ or GND}; V_{CC} = 0 \text{ V to } 5.5 \text{ V}$      | -            | -   | $\pm 0.1$   | -                | $\pm 1$     | -                 | $\pm 1$     | $\mu\text{A}$ |
| $I_{CC}$  | supply current            | $V_I = V_{CC} \text{ or GND}; I_O = 0 \text{ A}; V_{CC} = 5.5 \text{ V}$   | -            | -   | 2           | -                | 20          | -                 | 20          | $\mu\text{A}$ |

## 10. Dynamic characteristics

**Table 7. Dynamic characteristics**

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

| Symbol          | Parameter                     | Conditions                                                                                  | 25 °C |        |      | -40 °C to +85 °C |     | -40 °C to +125 °C |      | Unit |
|-----------------|-------------------------------|---------------------------------------------------------------------------------------------|-------|--------|------|------------------|-----|-------------------|------|------|
|                 |                               |                                                                                             | Min   | Typ[1] | Max  | Min              | Max | Min               | Max  |      |
| t <sub>pd</sub> | propagation delay             | nA, nB to nY; see Fig. 5 [2]                                                                |       |        |      |                  |     |                   |      |      |
|                 |                               | V <sub>CC</sub> = 2.3 V to 2.7 V                                                            |       |        |      |                  |     |                   |      |      |
|                 |                               | C <sub>L</sub> = 15 pF                                                                      | -     | 5.5    | 12.8 | 1                | 15  | 1                 | 16   | ns   |
|                 |                               | C <sub>L</sub> = 50 pF                                                                      | -     | 7.6    | 16.2 | 1                | 19  | 1                 | 20   | ns   |
|                 |                               | V <sub>CC</sub> = 3.0 V to 3.6 V                                                            |       |        |      |                  |     |                   |      |      |
|                 |                               | C <sub>L</sub> = 15 pF                                                                      | -     | 4.2    | 7.9  | 1                | 9.5 | 1                 | 10.5 | ns   |
|                 |                               | C <sub>L</sub> = 50 pF                                                                      | -     | 5.9    | 11.4 | 1                | 13  | 1                 | 14   | ns   |
|                 |                               | V <sub>CC</sub> = 4.5 V to 5.5 V                                                            |       |        |      |                  |     |                   |      |      |
|                 |                               | C <sub>L</sub> = 15 pF                                                                      | -     | 3.2    | 5.5  | 1                | 6.5 | 1                 | 7.5  | ns   |
|                 |                               | C <sub>L</sub> = 50 pF                                                                      | -     | 4.7    | 7.5  | 1                | 8.5 | 1                 | 9.5  | ns   |
| C <sub>I</sub>  | input capacitance             | V <sub>I</sub> = V <sub>CC</sub> or GND; V <sub>CC</sub> = 3.3 V                            | -     | 2      | 6    | -                | 6   | -                 | 6    | pF   |
| C <sub>O</sub>  | output capacitance            | V <sub>O</sub> = V <sub>CC</sub> or GND; V <sub>CC</sub> = 3.3 V                            | -     | 5.6    | -    | -                | -   | -                 | -    | pF   |
| C <sub>PD</sub> | power dissipation capacitance | per buffer; C <sub>L</sub> = 50 pF; f = 10 MHz; V <sub>I</sub> = GND to V <sub>CC</sub> [3] |       |        |      |                  |     |                   |      |      |
|                 |                               | V <sub>CC</sub> = 3.3 V                                                                     | -     | 9.2    | -    | -                | -   | -                 | -    | pF   |
|                 |                               | V <sub>CC</sub> = 5.0 V                                                                     | -     | 9.4    | -    | -                | -   | -                 | -    | pF   |

[1] Typical values are measured at T<sub>amb</sub> = 25 °C and V<sub>CC</sub> = 2.5 V, 3.3 V, and 5 V respectively, unless otherwise specified.

[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):

$$P_D = C_{PD} \times V_{CC}^2 \times f_i \times N + \sum (C_L \times V_{CC}^2 \times f_o) \text{ where:}$$

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.

**Table 8. Noise characteristics at T<sub>amb</sub> = 25 °C**

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

| Symbol              | Parameter                          | Conditions                                      | Min  | Typ  | Max  | Unit |
|---------------------|------------------------------------|-------------------------------------------------|------|------|------|------|
| V <sub>OL(p)</sub>  | LOW-level output voltage (peak)    | V <sub>CC</sub> = 3.3 V; C <sub>L</sub> = 50 pF | -    | 0.2  | 0.8  | V    |
| V <sub>OL(v)</sub>  | LOW-level output voltage (valley)  | V <sub>CC</sub> = 3.3 V; C <sub>L</sub> = 50 pF | -0.8 | -0.1 | -    | V    |
| V <sub>OH(v)</sub>  | HIGH-level output voltage (valley) | V <sub>CC</sub> = 3.3 V; C <sub>L</sub> = 50 pF | -    | 3.1  | -    | V    |
| V <sub>IH(AC)</sub> | AC HIGH-level input voltage        | V <sub>CC</sub> = 3.3 V; C <sub>L</sub> = 50 pF | 2.31 | -    | -    | V    |
| V <sub>IL(AC)</sub> | AC LOW-level input voltage         | V <sub>CC</sub> = 3.3 V; C <sub>L</sub> = 50 pF | -    | -    | 0.99 | V    |

10.1. Waveforms and test circuit

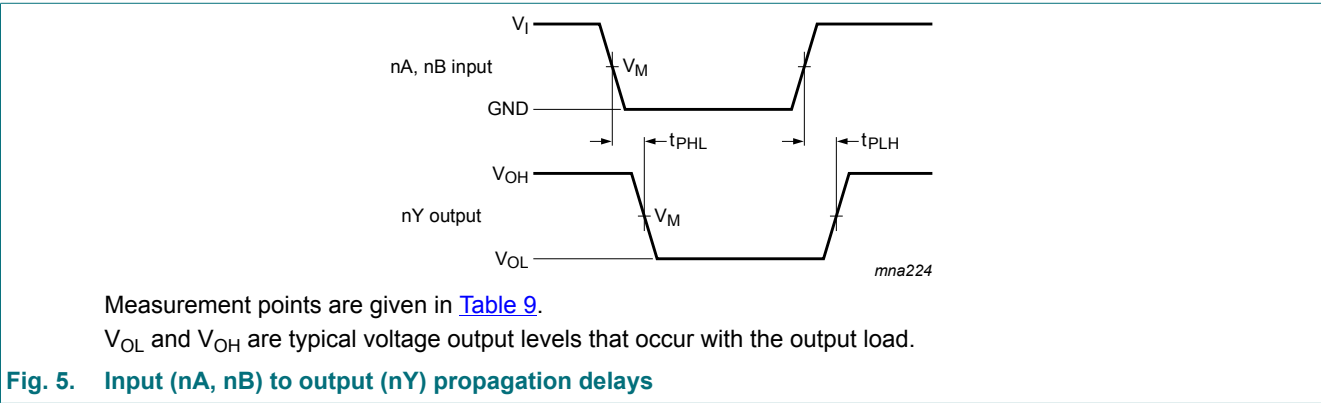


Table 9. Measurement points

| Input       | Output      |
|-------------|-------------|
| $V_M$       | $V_M$       |
| $0.5V_{CC}$ | $0.5V_{CC}$ |

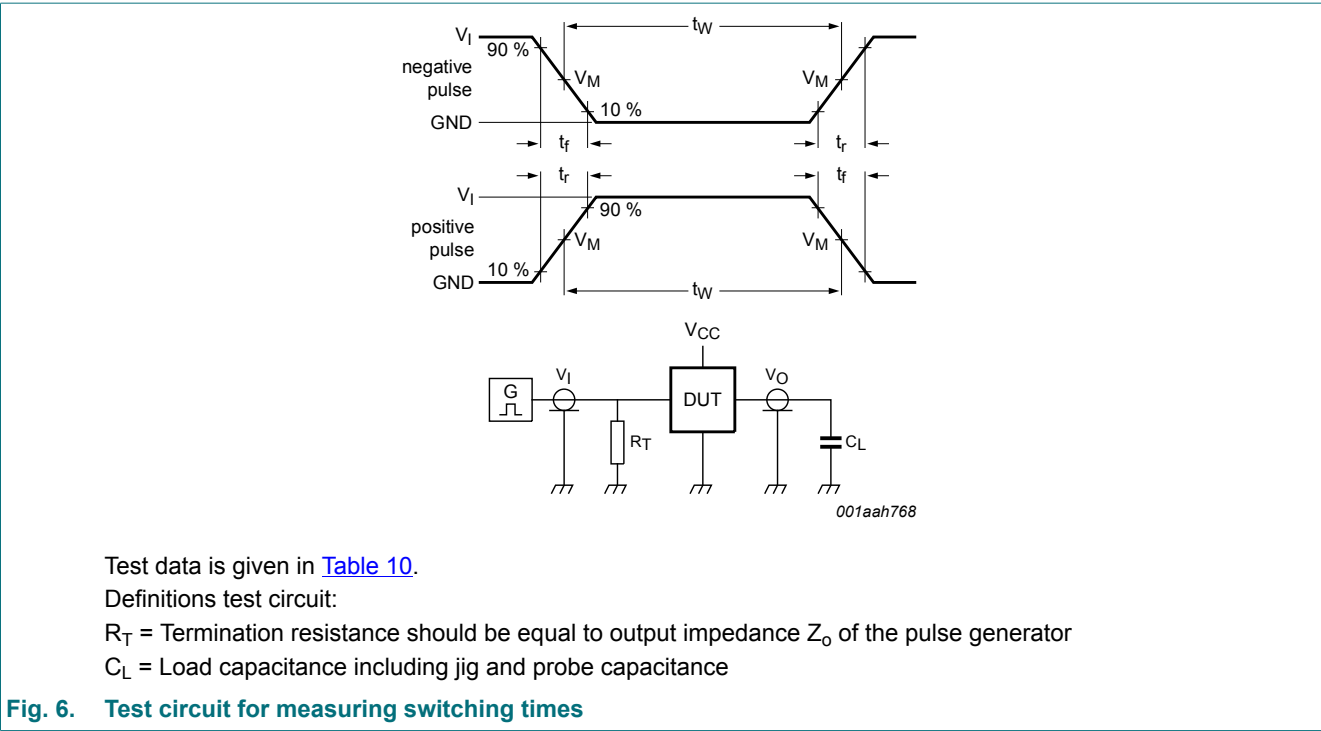


Table 10. Test data

| Input           |            | Load         | Test               |
|-----------------|------------|--------------|--------------------|
| $V_I$           | $t_r, t_f$ | $C_L$        |                    |
| GND to $V_{CC}$ | 3.0 ns     | 15 pF, 50 pF | $t_{PLH}, t_{PHL}$ |

11. Package outline

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

SOT402-1

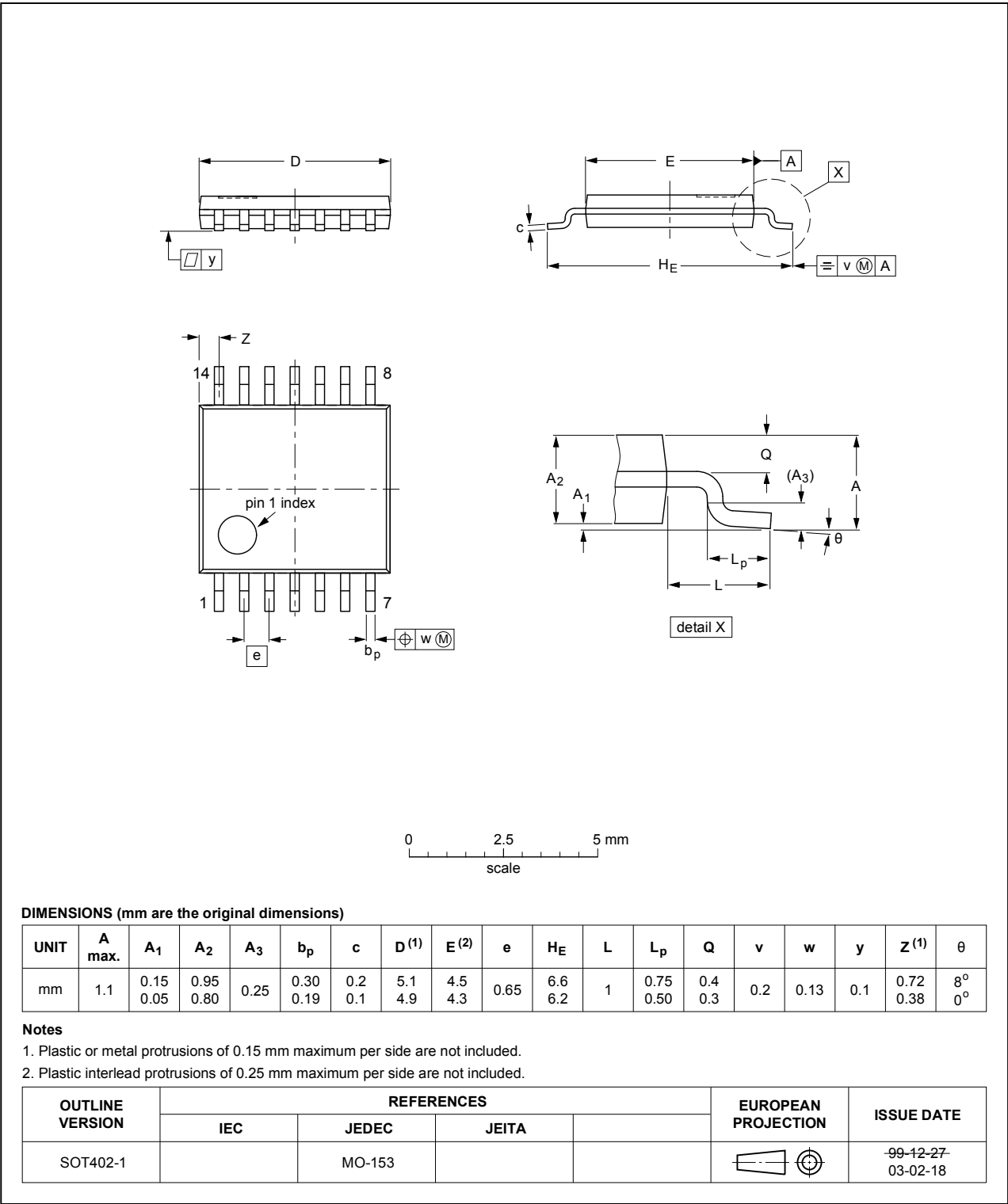


Fig. 7. Package outline SOT402-1 (TSSOP14)

## 12. Abbreviations

**Table 11. Abbreviations**

| Acronym | Description             |
|---------|-------------------------|
| CDM     | Charge Device Model     |
| DUT     | Device Under Test       |
| ESD     | ElectroStatic Discharge |
| HBM     | Human Body Model        |
| TBD     | To Be Determined        |

## 13. Revision history

**Table 12. Revision history**

| Document ID | Release date | Data sheet status  | Change notice | Supersedes |
|-------------|--------------|--------------------|---------------|------------|
| 74LV32A v.1 | 20181219     | Product data sheet | -             | -          |



## 14. Legal information

### Data sheet status

| Document status<br>[1][2]      | Product status [3] | Definition                                                                            |
|--------------------------------|--------------------|---------------------------------------------------------------------------------------|
| Objective [short] data sheet   | Development        | This document contains data from the objective specification for product development. |
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Благодаря сотрудничеству с мировыми поставщиками мы осуществляем комплексные и плановые поставки широчайшего спектра электронных компонентов.

Собственная эффективная логистика и склад в обеспечивает надежную поставку продукции в точно указанные сроки по всей России.

Мы осуществляем техническую поддержку нашим клиентам и предпродажную проверку качества продукции. На все поставляемые продукты мы предоставляем гарантию .

Осуществляем поставки продукции под контролем ВП МО РФ на предприятия военно-промышленного комплекса России , а также работаем в рамках 275 ФЗ с открытием отдельных счетов в уполномоченном банке. Система менеджмента качества компании соответствует требованиям ГОСТ ISO 9001.

Минимальные сроки поставки, гибкие цены, неограниченный ассортимент и индивидуальный подход к клиентам являются основой для выстраивания долгосрочного и эффективного сотрудничества с предприятиями радиоэлектронной промышленности, предприятиями ВПК и научно-исследовательскими институтами России.

С нами вы становитесь еще успешнее!

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