

# 74LVC126A

Quad buffer/line driver with 5 V tolerant input/outputs; 3-state  
Rev. 9 — 21 August 2018

Product data sheet

## 1. General description

The 74LVC126A consists of four non-inverting buffers/line drivers with 3-state outputs, which are controlled by the output enable input (nOE). A LOW at nOE causes the outputs to assume a high-impedance OFF-state.

Inputs can be driven from either 3.3 V or 5 V devices. When disabled, up to 5.5 V can be applied to the outputs.

## 2. Features and benefits

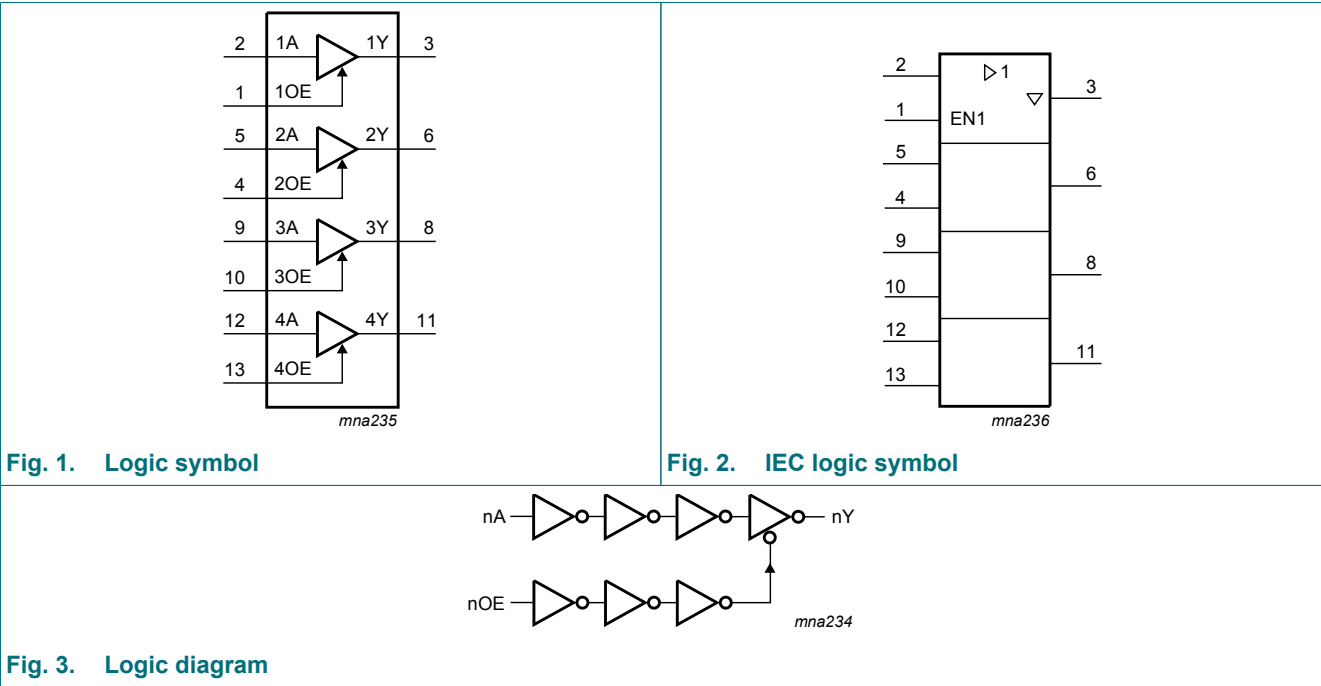
- 5 V tolerant inputs/outputs for interfacing with 5 V logic
- Wide supply voltage range from 1.2 V to 3.6 V
- CMOS low power consumption
- Direct interface with TTL levels
- Complies with JEDEC standard:
  - JESD8-7A (1.65 V to 1.95 V)
  - JESD8-5A (2.3 V to 2.7 V)
  - JESD8-C/JESD36 (2.7 V to 3.6 V)
- ESD protection:
  - HBM JESD22-A114F exceeds 2000 V
  - MM JESD22-A115B exceeds 200 V
  - CDM JESD22-C101E exceeds 1000 V
- Specified from -40 °C to +85 °C and -40 °C to +125 °C

## 3. Ordering information

Table 1. Ordering information

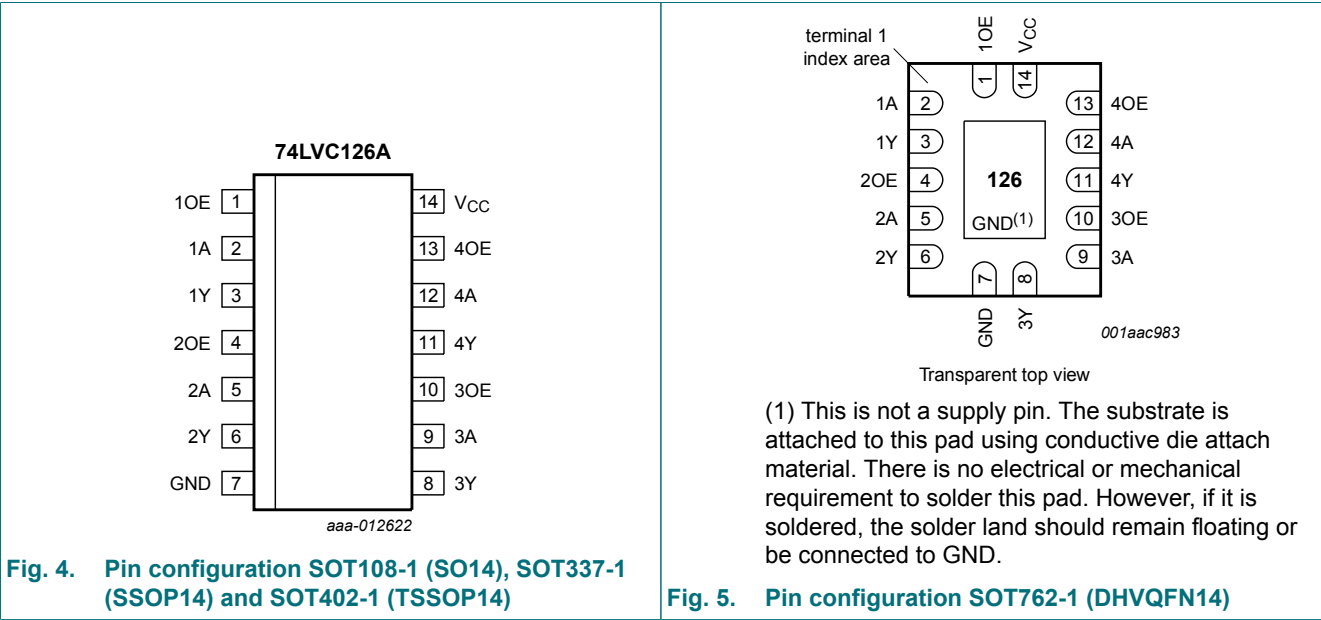
| Type number | Package           |          |                                                                                                                              |          |
|-------------|-------------------|----------|------------------------------------------------------------------------------------------------------------------------------|----------|
|             | Temperature range | Name     | Description                                                                                                                  | Version  |
| 74LVC126AD  | -40 °C to +125 °C | SO14     | plastic small outline package; 14 leads; body width 3.9 mm                                                                   | SOT108-1 |
| 74LVC126ADB | -40 °C to +125 °C | SSOP14   | plastic shrink small outline package; 14 leads; body width 5.3 mm                                                            | SOT337-1 |
| 74LVC126APW | -40 °C to +125 °C | TSSOP14  | plastic thin small outline package; 14 leads; body width 4.4 mm                                                              | SOT402-1 |
| 74LVC126ABQ | -40 °C to +125 °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 | SOT762-1 |

4. Functional diagram



5. Pinning information

5.1. Pinning



## 5.2. Pin description

Table 2. Pin description

| Symbol             | Pin          | Description                     |
|--------------------|--------------|---------------------------------|
| 1OE, 2OE, 3OE, 4OE | 1, 4, 10, 13 | data enable input (active HIGH) |
| 1A, 2A, 3A, 4A     | 2, 5, 9, 12  | 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 selection

H = HIGH voltage level; L = LOW voltage level; X = don't care; Z = high-impedance OFF-state

| Inputs |    | Output |
|--------|----|--------|
| nOE    | nA | nY     |
| H      | L  | L      |
| H      | H  | H      |
| L      | X  | Z      |

## 7. Limiting values

Table 4. Limiting values

In accordance with the Absolute Maximum Rating System (IEC 60134).

| Symbol           | Parameter               | Conditions                                               | Min  | Max                   | Unit |
|------------------|-------------------------|----------------------------------------------------------|------|-----------------------|------|
| V <sub>CC</sub>  | supply voltage          |                                                          | -0.5 | +6.5                  | V    |
| I <sub>IK</sub>  | input clamping current  | V <sub>I</sub> < 0 V                                     | -50  | -                     | mA   |
| V <sub>I</sub>   | input voltage           | [1]                                                      | -0.5 | +6.5                  | V    |
| I <sub>OK</sub>  | output clamping current | V <sub>O</sub> > V <sub>CC</sub> or V <sub>O</sub> < 0 V | -    | ±50                   | mA   |
| V <sub>O</sub>   | output voltage          | output HIGH or LOW-state [2]                             | -0.5 | V <sub>CC</sub> + 0.5 | V    |
|                  |                         | output 3-state [2]                                       | -0.5 | +6.5                  | V    |
| I <sub>O</sub>   | output current          | V <sub>O</sub> = 0 V to V <sub>CC</sub>                  | -    | ±50                   | mA   |
| I <sub>CC</sub>  | supply current          |                                                          | -    | 100                   | mA   |
| I <sub>GND</sub> | ground current          |                                                          | -100 | -                     | mA   |
| T <sub>stg</sub> | storage temperature     | [3]                                                      | -65  | +150                  | °C   |
| P <sub>tot</sub> | total power dissipation | T <sub>amb</sub> = -40 °C to +125 °C                     | -    | 500                   | mW   |

[1] The minimum input voltage ratings may be exceeded if the input current ratings are observed.

[2] The output voltage ratings may be exceeded if the output current ratings are observed.

[3] For SO14 packages: above 70 °C the value of P<sub>tot</sub> derates linearly with 8 mW/K.

For (T)SSOP14 packages: above 60 °C the value of P<sub>tot</sub> derates linearly with 5.5 mW/K.

For DHVQFN14 packages: above 60 °C the value of P<sub>tot</sub> derates linearly with 4.5 mW/K.

## 8. Recommended operating conditions

Table 5. Recommended operating conditions

| Symbol           | Parameter                           | Conditions                        | Min  | Typ | Max             | Unit |
|------------------|-------------------------------------|-----------------------------------|------|-----|-----------------|------|
| V <sub>CC</sub>  | supply voltage                      |                                   | 1.65 | -   | 3.6             | V    |
|                  |                                     | functional                        | 1.2  | -   | -               | V    |
| V <sub>I</sub>   | input voltage                       |                                   | 0    | -   | 5.5             | V    |
| V <sub>O</sub>   | output voltage                      | output HIGH or LOW state          | 0    | -   | V <sub>CC</sub> | V    |
|                  |                                     | output 3-state                    | 0    | -   | 5.5             | V    |
| T <sub>amb</sub> | ambient temperature                 | in free air                       | -40  | -   | +125            | °C   |
| Δt/ΔV            | input transition rise and fall rate | V <sub>CC</sub> = 1.65 V to 2.7 V | 0    | -   | 20              | ns/V |
|                  |                                     | V <sub>CC</sub> = 2.7 V to 3.6 V  | 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      |         |                     | -40 °C to +125 °C     |                     | Unit |
|-----------------|---------------------------|-------------------------------------------------------------|-----------------------|---------|---------------------|-----------------------|---------------------|------|
|                 |                           |                                                             | Min                   | Typ [1] | Max                 | Min                   | Max                 |      |
| V <sub>IH</sub> | HIGH-level input voltage  | V <sub>CC</sub> = 1.2 V                                     | 1.08                  | -       | -                   | 1.08                  | -                   | V    |
|                 |                           | V <sub>CC</sub> = 1.65 V to 1.95 V                          | 0.65V <sub>CC</sub>   | -       | -                   | 0.65V <sub>CC</sub>   | -                   | V    |
|                 |                           | V <sub>CC</sub> = 2.3 V to 2.7 V                            | 1.7                   | -       | -                   | 1.7                   | -                   | V    |
|                 |                           | V <sub>CC</sub> = 2.7 V to 3.6 V                            | 2.0                   | -       | -                   | 2.0                   | -                   | V    |
| V <sub>IL</sub> | LOW-level input voltage   | V <sub>CC</sub> = 1.2 V                                     | -                     | -       | 0.12                | -                     | 0.12                | V    |
|                 |                           | V <sub>CC</sub> = 1.65 V to 1.95 V                          | -                     | -       | 0.35V <sub>CC</sub> | -                     | 0.35V <sub>CC</sub> | V    |
|                 |                           | V <sub>CC</sub> = 2.3 V to 2.7 V                            | -                     | -       | 0.7                 | -                     | 0.7                 | V    |
|                 |                           | V <sub>CC</sub> = 2.7 V to 3.6 V                            | -                     | -       | 0.8                 | -                     | 0.8                 | V    |
| V <sub>OH</sub> | HIGH-level output voltage | V <sub>I</sub> = V <sub>IH</sub> or V <sub>IL</sub>         |                       |         |                     |                       |                     |      |
|                 |                           | I <sub>O</sub> = -100 μA; V <sub>CC</sub> = 1.65 V to 3.6 V | V <sub>CC</sub> - 0.2 | -       | -                   | V <sub>CC</sub> - 0.3 | -                   | V    |
|                 |                           | I <sub>O</sub> = -4 mA; V <sub>CC</sub> = 1.65 V            | 1.2                   | -       | -                   | 1.05                  | -                   | V    |
|                 |                           | I <sub>O</sub> = -8 mA; V <sub>CC</sub> = 2.3 V             | 1.8                   | -       | -                   | 1.65                  | -                   | V    |
|                 |                           | I <sub>O</sub> = -12 mA; V <sub>CC</sub> = 2.7 V            | 2.2                   | -       | -                   | 2.05                  | -                   | V    |
|                 |                           | I <sub>O</sub> = -18 mA; V <sub>CC</sub> = 3.0 V            | 2.4                   | -       | -                   | 2.25                  | -                   | V    |
|                 |                           | I <sub>O</sub> = -24 mA; V <sub>CC</sub> = 3.0 V            | 2.2                   | -       | -                   | 2.0                   | -                   | V    |
| V <sub>OL</sub> | LOW-level output voltage  | V <sub>I</sub> = V <sub>IH</sub> or V <sub>IL</sub>         |                       |         |                     |                       |                     |      |
|                 |                           | I <sub>O</sub> = 100 μA; V <sub>CC</sub> = 1.65 V to 3.6 V  | -                     | -       | 0.2                 | -                     | 0.3                 | V    |
|                 |                           | I <sub>O</sub> = 4 mA; V <sub>CC</sub> = 1.65 V             | -                     | -       | 0.45                | -                     | 0.65                | V    |
|                 |                           | I <sub>O</sub> = 8 mA; V <sub>CC</sub> = 2.3 V              | -                     | -       | 0.6                 | -                     | 0.8                 | V    |
|                 |                           | I <sub>O</sub> = 12 mA; V <sub>CC</sub> = 2.7 V             | -                     | -       | 0.4                 | -                     | 0.6                 | V    |
|                 |                           | I <sub>O</sub> = 24 mA; V <sub>CC</sub> = 3.0 V             | -                     | -       | 0.55                | -                     | 0.8                 | V    |

## Quad buffer/line driver with 5 V tolerant input/outputs; 3-state

| Symbol          | Parameter                 | Conditions                                                                                                               | -40 °C to +85 °C |           |          | -40 °C to +125 °C |          | Unit          |
|-----------------|---------------------------|--------------------------------------------------------------------------------------------------------------------------|------------------|-----------|----------|-------------------|----------|---------------|
|                 |                           |                                                                                                                          | Min              | Typ [1]   | Max      | Min               | Max      |               |
| $I_I$           | input leakage current     | $V_{CC} = 3.6 \text{ V}$ ; $V_I = 5.5 \text{ V}$ or GND                                                                  | -                | $\pm 0.1$ | $\pm 5$  | -                 | $\pm 20$ | $\mu\text{A}$ |
| $I_{OZ}$        | OFF-state output current  | $V_I = V_{IH}$ or $V_{IL}$ ; $V_{CC} = 3.6 \text{ V}$ ; $V_O = 5.5 \text{ V}$ or GND                                     | -                | $\pm 0.1$ | $\pm 5$  | -                 | $\pm 20$ | $\mu\text{A}$ |
| $I_{OFF}$       | power-off leakage current | $V_{CC} = 0 \text{ V}$ ; $V_I$ or $V_O = 5.5 \text{ V}$                                                                  | -                | $\pm 0.1$ | $\pm 10$ | -                 | $\pm 20$ | $\mu\text{A}$ |
| $I_{CC}$        | supply current            | $V_{CC} = 3.6 \text{ V}$ ; $V_I = V_{CC}$ or GND; $I_O = 0 \text{ A}$                                                    | -                | 0.1       | 10       | -                 | 40       | $\mu\text{A}$ |
| $\Delta I_{CC}$ | additional supply current | per input pin;<br>$V_{CC} = 1.65 \text{ V}$ to $3.6 \text{ V}$ ;<br>$V_I = V_{CC} - 0.6 \text{ V}$ ; $I_O = 0 \text{ A}$ | -                | 5         | 500      | -                 | 5000     | $\mu\text{A}$ |
| $C_I$           | input capacitance         | $V_{CC} = 0 \text{ V}$ to $3.6 \text{ V}$ ;<br>$V_I = \text{GND}$ to $V_{CC}$                                            | -                | 4.0       | -        | -                 | -        | pF            |

[1] All typical values are measured at  $V_{CC} = 3.3 \text{ V}$  (unless stated otherwise) and  $T_{amb} = 25 \text{ °C}$ .

## 10. Dynamic characteristics

**Table 7. Dynamic characteristics**

Voltages are referenced to GND (ground = 0 V). For test circuit see Fig. 8.

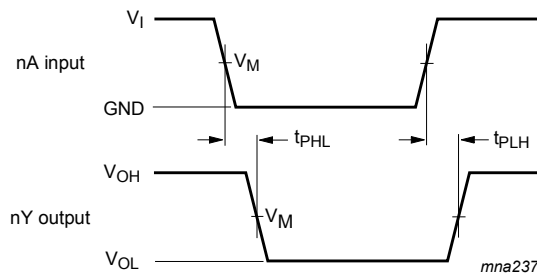
| Symbol    | Parameter         | Conditions                                    | -40 °C to +85 °C |         |      | -40 °C to +125 °C |      | Unit |
|-----------|-------------------|-----------------------------------------------|------------------|---------|------|-------------------|------|------|
|           |                   |                                               | Min              | Typ [1] | Max  | Min               | Max  |      |
| $t_{pd}$  | propagation delay | nA to nY; see Fig. 6 [2]                      |                  |         |      |                   |      |      |
|           |                   | $V_{CC} = 1.2 \text{ V}$                      | -                | 11.0    | -    | -                 | -    | ns   |
|           |                   | $V_{CC} = 1.65 \text{ V}$ to $1.95 \text{ V}$ | 1.5              | 5.2     | 10.8 | 1.5               | 12.6 | ns   |
|           |                   | $V_{CC} = 2.3 \text{ V}$ to $2.7 \text{ V}$   | 1.0              | 2.8     | 5.6  | 1.0               | 6.6  | ns   |
|           |                   | $V_{CC} = 2.7 \text{ V}$                      | 1.5              | 2.7     | 5.2  | 1.5               | 6.5  | ns   |
|           |                   | $V_{CC} = 3.0 \text{ V}$ to $3.6 \text{ V}$   | 1.0              | 2.4     | 4.7  | 1.0               | 6.0  | ns   |
| $t_{en}$  | enable time       | nOE to nY; see Fig. 7 [2]                     |                  |         |      |                   |      |      |
|           |                   | $V_{CC} = 1.2 \text{ V}$                      | -                | 15.0    | -    | -                 | -    | ns   |
|           |                   | $V_{CC} = 1.65 \text{ V}$ to $1.95 \text{ V}$ | 2.4              | 6.7     | 12.9 | 2.4               | 15.0 | ns   |
|           |                   | $V_{CC} = 2.3 \text{ V}$ to $2.7 \text{ V}$   | 2.0              | 3.8     | 7.1  | 2.0               | 8.3  | ns   |
|           |                   | $V_{CC} = 2.7 \text{ V}$                      | 1.5              | 3.1     | 6.3  | 1.5               | 8.0  | ns   |
|           |                   | $V_{CC} = 3.0 \text{ V}$ to $3.6 \text{ V}$   | 1.0              | 3.1     | 5.7  | 1.0               | 7.5  | ns   |
| $t_{dis}$ | disable time      | nOE to nY; see Fig. 7 [2]                     |                  |         |      |                   |      |      |
|           |                   | $V_{CC} = 1.2 \text{ V}$                      | -                | 8.0     | -    | -                 | -    | ns   |
|           |                   | $V_{CC} = 1.65 \text{ V}$ to $1.95 \text{ V}$ | 1.0              | 3.3     | 10.0 | 1.0               | 11.5 | ns   |
|           |                   | $V_{CC} = 2.3 \text{ V}$ to $2.7 \text{ V}$   | 0.5              | 1.8     | 5.6  | 0.5               | 6.5  | ns   |
|           |                   | $V_{CC} = 2.7 \text{ V}$                      | 1.5              | 3.4     | 6.7  | 1.5               | 8.5  | ns   |
|           |                   | $V_{CC} = 3.0 \text{ V}$ to $3.6 \text{ V}$   | 1.3              | 2.5     | 6.0  | 1.3               | 7.5  | ns   |

## Quad buffer/line driver with 5 V tolerant input/outputs; 3-state

| Symbol      | Parameter                     | Conditions                                    | -40 °C to +85 °C |         |     | -40 °C to +125 °C |     | Unit |
|-------------|-------------------------------|-----------------------------------------------|------------------|---------|-----|-------------------|-----|------|
|             |                               |                                               | Min              | Typ [1] | Max | Min               | Max |      |
| $t_{sk(o)}$ | output skew time              | $V_{CC} = 3.0\text{ V to }3.6\text{ V}$ [3]   | -                | -       | 1.0 | -                 | 1.5 | ns   |
| $C_{PD}$    | power dissipation capacitance | per buffer; $V_I = \text{GND to } V_{CC}$ [4] |                  |         |     |                   |     |      |
|             |                               | $V_{CC} = 1.65\text{ V to }1.95\text{ V}$     | -                | 6.0     | -   | -                 | -   | pF   |
|             |                               | $V_{CC} = 2.3\text{ V to }2.7\text{ V}$       | -                | 9.3     | -   | -                 | -   | pF   |
|             |                               | $V_{CC} = 3.0\text{ V to }3.6\text{ V}$       | -                | 12.2    | -   | -                 | -   | pF   |

- [1] Typical values are measured at  $T_{amb} = 25\text{ °C}$  and  $V_{CC} = 1.2\text{ V}, 1.8\text{ V}, 2.5\text{ V}, 2.7\text{ V},$  and  $3.3\text{ V}$  respectively.
- [2]  $t_{pd}$  is the same as  $t_{PLH}$  and  $t_{PHL}$ .  
 $t_{en}$  is the same as  $t_{PZL}$  and  $t_{PZH}$ .  
 $t_{dis}$  is the same as  $t_{PLZ}$  and  $t_{PHZ}$ .
- [3] Skew between any two outputs of the same package switching in the same direction. This parameter is guaranteed by design.
- [4]  $C_{PD}$  is used to determine the dynamic power dissipation ( $P_D$  in  $\mu\text{W}$ ).  
 $P_D = C_{PD} \times V_{CC}^2 \times f_i \times N + \Sigma(C_L \times V_{CC}^2 \times f_o)$  where:  
 $f_i$  = input frequency in MHz;  $f_o$  = output frequency in MHz  
 $C_L$  = output load capacitance in pF  
 $V_{CC}$  = supply voltage in Volts  
 $N$  = number of inputs switching  
 $\Sigma(C_L \times V_{CC}^2 \times f_o)$  = sum of the outputs

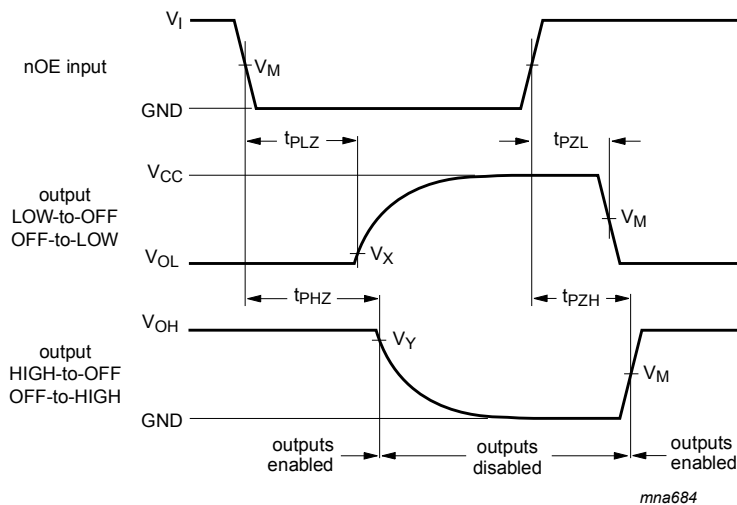
## 10.1. Waveforms and test circuit



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

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

**Fig. 6. The input nA to output nY propagation delays**



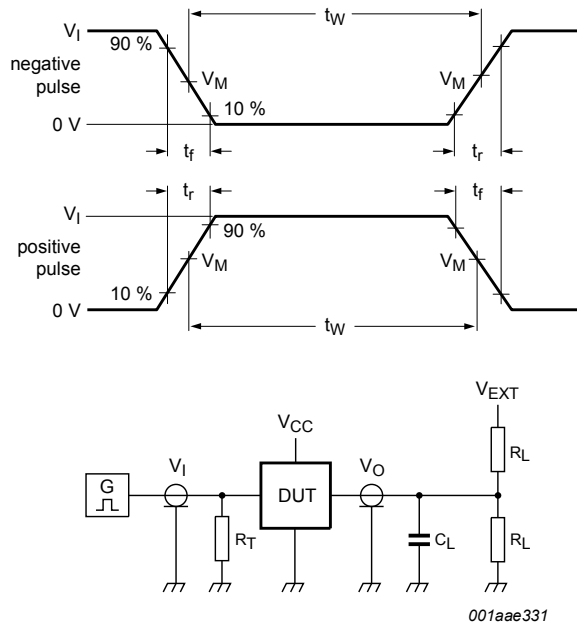
Measurement points are given in [Table 8](#).

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

**Fig. 7. 3-state enable and disable times**

Table 8. Measurement points

| Supply voltage             | Input               | Output              |                          |                          |
|----------------------------|---------------------|---------------------|--------------------------|--------------------------|
| $V_{CC}$                   | $V_M$               | $V_M$               | $V_X$                    | $V_Y$                    |
| $V_{CC} < 2.7\text{ V}$    | $0.5 \times V_{CC}$ | $0.5 \times V_{CC}$ | $V_{OL} + 0.15\text{ V}$ | $V_{OH} - 0.15\text{ V}$ |
| $V_{CC} \geq 2.7\text{ V}$ | 1.5 V               | 1.5 V               | $V_{OL} + 0.3\text{ V}$  | $V_{OH} - 0.3\text{ V}$  |



Test data is 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.

$V_{EXT}$  = External voltage for measuring switching times.

Fig. 8. Test circuit for measuring switching times

Table 9. Test data

| Supply voltage   | Input    |                      | Load  |              | $V_{EXT}$          |                    |                    |
|------------------|----------|----------------------|-------|--------------|--------------------|--------------------|--------------------|
|                  | $V_I$    | $t_r, t_f$           | $C_L$ | $R_L$        | $t_{PLH}, t_{PHL}$ | $t_{PLZ}, t_{PZL}$ | $t_{PHZ}, t_{PZH}$ |
| 1.2 V            | $V_{CC}$ | $\leq 2\text{ ns}$   | 30 pF | 1 k $\Omega$ | open               | $2 \times V_{CC}$  | GND                |
| 1.65 V to 1.95 V | $V_{CC}$ | $\leq 2\text{ ns}$   | 30 pF | 1 k $\Omega$ | open               | $2 \times V_{CC}$  | GND                |
| 2.3 V to 2.7 V   | $V_{CC}$ | $\leq 2\text{ ns}$   | 30 pF | 500 $\Omega$ | open               | $2 \times V_{CC}$  | GND                |
| 2.7 V            | 2.7 V    | $\leq 2.5\text{ ns}$ | 50 pF | 500 $\Omega$ | open               | $2 \times V_{CC}$  | GND                |
| 3.0 V to 3.6 V   | 2.7 V    | $\leq 2.5\text{ ns}$ | 50 pF | 500 $\Omega$ | open               | $2 \times V_{CC}$  | GND                |

11. Package outline

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

SOT108-1

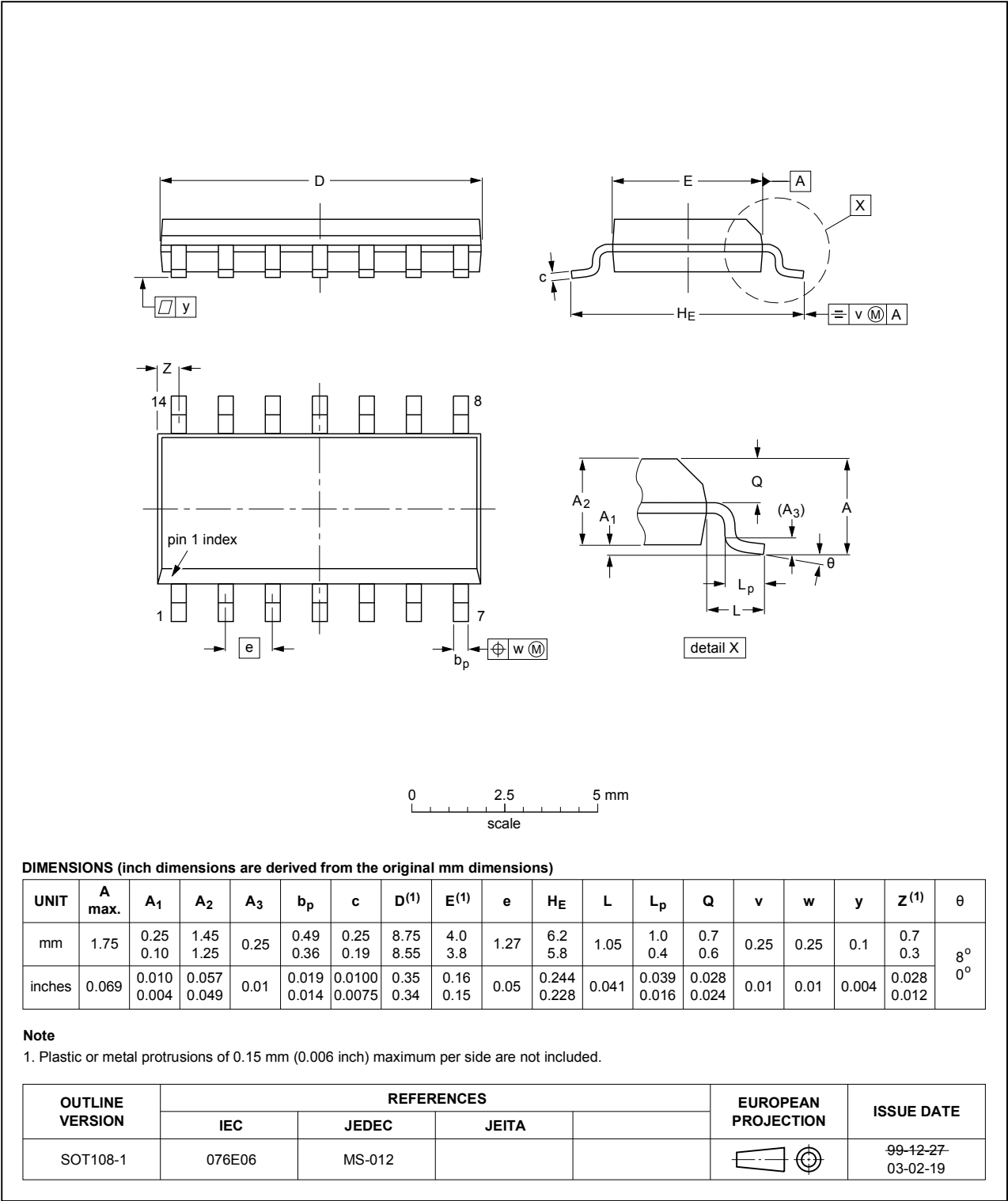


Fig. 9. Package outline SOT108-1 (SO14)

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

SOT337-1

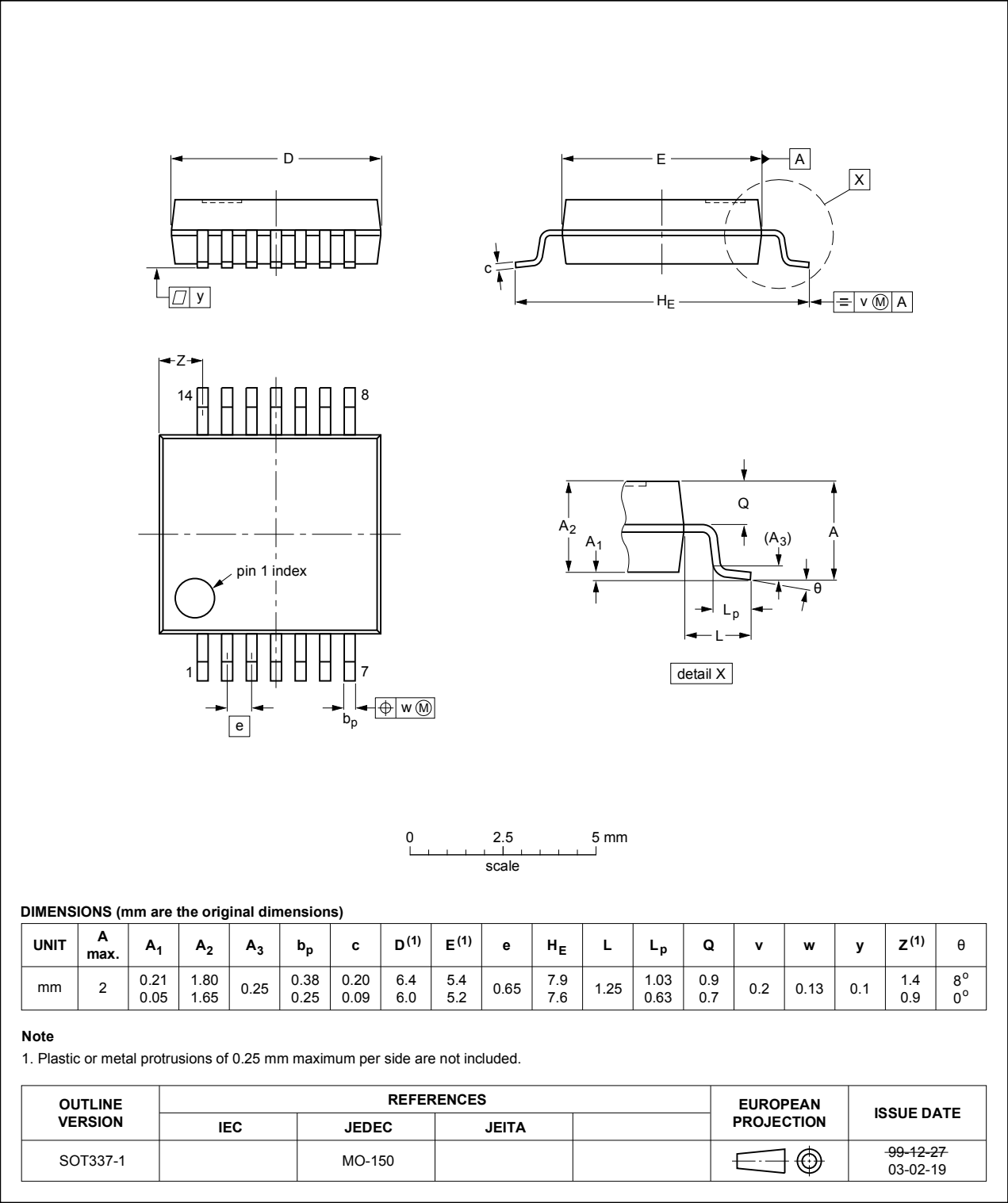


Fig. 10. Package outline SOT337-1 (SSOP14)

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

SOT402-1

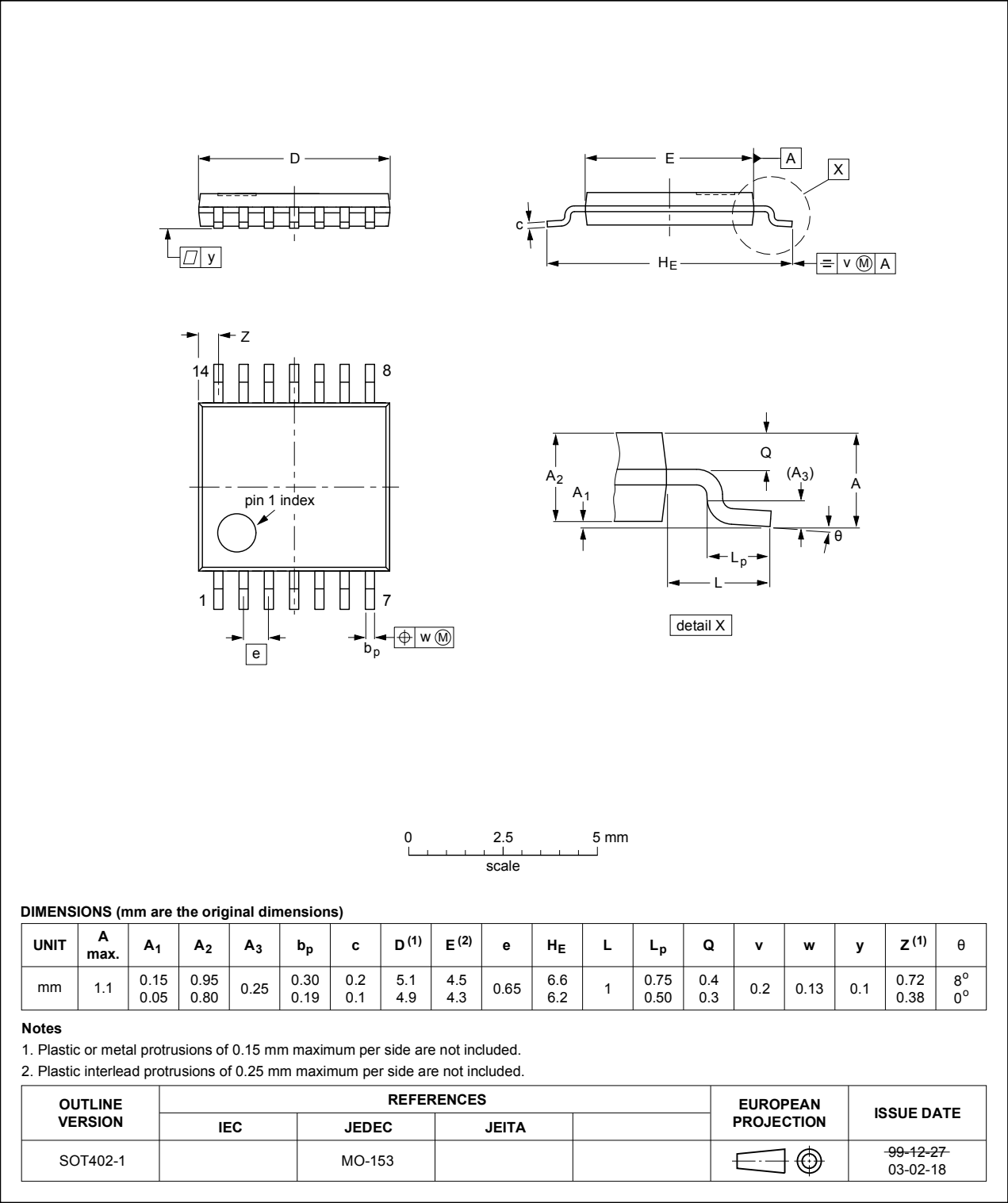
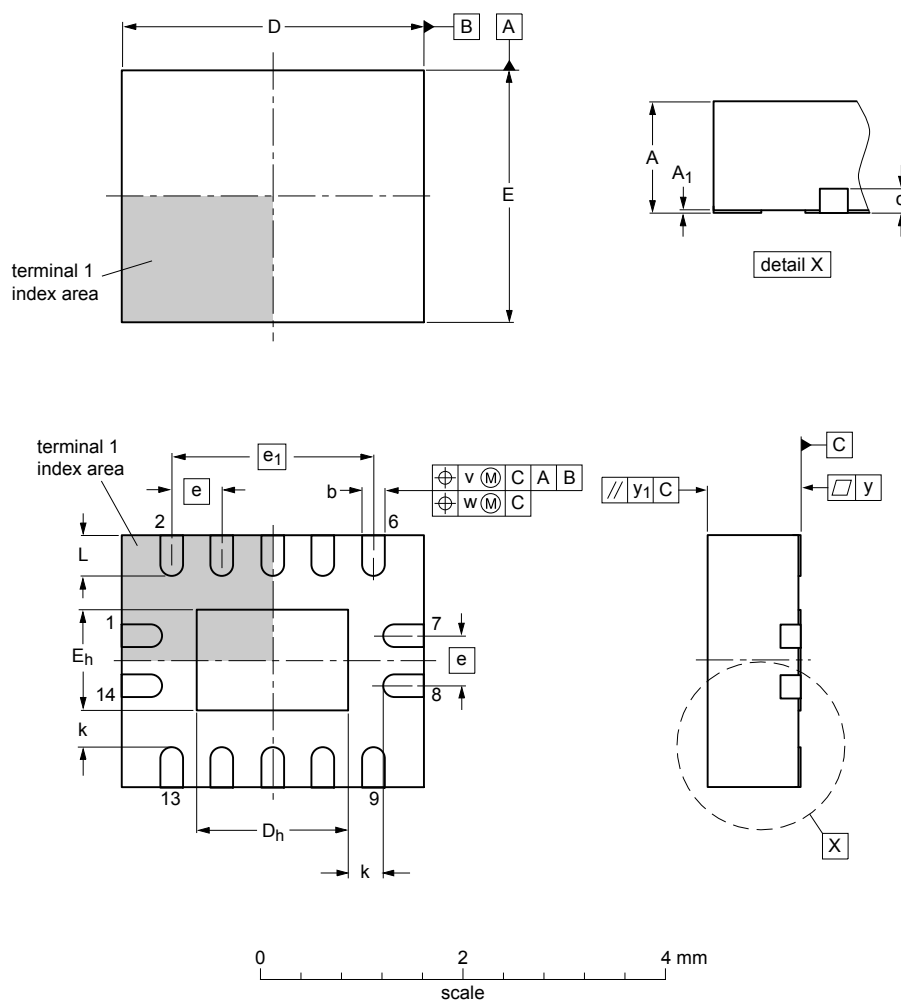


Fig. 11. Package outline SOT402-1 (TSSOP14)

**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**



Dimensions (mm are the original dimensions)

| Unit |     | A <sup>(1)</sup> | A <sub>1</sub> | b    | c   | D <sup>(1)</sup> | D <sub>h</sub> | E <sup>(1)</sup> | E <sub>h</sub> | e   | e <sub>1</sub> | k   | L   | v   | w    | y    | y <sub>1</sub> |
|------|-----|------------------|----------------|------|-----|------------------|----------------|------------------|----------------|-----|----------------|-----|-----|-----|------|------|----------------|
| mm   | max | 1                | 0.05           | 0.30 |     | 3.1              | 1.65           | 2.6              | 1.15           |     |                |     | 0.5 |     |      |      |                |
|      | nom |                  | 0.02           | 0.25 | 0.2 | 3.0              | 1.50           | 2.5              | 1.00           | 0.5 | 2              |     | 0.4 | 0.1 | 0.05 | 0.05 | 0.1            |
|      | min |                  | 0.00           | 0.18 |     | 2.9              | 1.35           | 2.4              | 0.85           |     |                | 0.2 | 0.3 |     |      |      |                |

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Note

1. Plastic or metal protrusions of 0.075 mm maximum per side are not included.

sot762-1\_po

| Outline version | References |        |       |  | European projection                                                                   | Issue date           |
|-----------------|------------|--------|-------|--|---------------------------------------------------------------------------------------|----------------------|
|                 | IEC        | JEDEC  | JEITA |  |                                                                                       |                      |
| SOT762-1        |            | MO-241 |       |  |  | 15-04-10<br>15-05-05 |

**Fig. 12. Package outline SOT762-1 (DHVQFN14)**

## 12. Abbreviations

Table 10. Abbreviations

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

## 13. Revision history

Table 11. Revision history

| Document ID    | Release date                                                                                                                                                                                                                              | Data sheet status     | Change notice | Supersedes    |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|---------------|---------------|
| 74LVC126A v.9  | 20180821                                                                                                                                                                                                                                  | Product data sheet    | -             | 74LVC126A v.8 |
| 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> |                       |               |               |
| 74LVC126A v.8  | 20140408                                                                                                                                                                                                                                  | Product data sheet    | -             | 74LVC126A v.7 |
| Modifications: | <ul style="list-style-type: none"> <li>Legal pages updated.</li> </ul>                                                                                                                                                                    |                       |               |               |
| 74LVC126A v.7  | 20111209                                                                                                                                                                                                                                  | Product data sheet    | -             | 74LVC126A v.6 |
| Modifications: | <ul style="list-style-type: none"> <li>Legal pages updated.</li> </ul>                                                                                                                                                                    |                       |               |               |
| 74LVC126A v.6  | 20110926                                                                                                                                                                                                                                  | Product data sheet    | -             | 74LVC126A v.5 |
| 74LVC126A v.5  | 20030228                                                                                                                                                                                                                                  | Product specification | -             | 74LVC126A v.4 |
| 74LVC126A v.4  | 20020308                                                                                                                                                                                                                                  | Product specification | -             | 74LVC126A v.3 |
| 74LVC126A v.3  | 19980428                                                                                                                                                                                                                                  | Product specification | -             | 74LVC126A v.2 |
| 74LVC126A v.2  | 19970801                                                                                                                                                                                                                                  | Product specification | -             | 74LVC126A v.1 |
| 74LVC126A v.1  | 19961226                                                                                                                                                                                                                                  | Product specification | -             | -             |

## 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. |
| Preliminary [short] data sheet | Qualification      | This document contains data from the preliminary specification.                       |
| Product [short] data sheet     | Production         | This document contains the product specification.                                     |

- [1] Please consult the most recently issued document before initiating or completing a design.
- [2] The term 'short data sheet' is explained in section "Definitions".
- [3] The product status of device(s) described in this document may have changed since this document was published and may differ in case of multiple devices. The latest product status information is available on the internet at <https://www.nexperia.com>.

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