

74LVC126A

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

Rev. 06.00 — 16 May 2006

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.

It is a high-performance, low-power, low-voltage, Si-gate CMOS device, superior to most advanced CMOS compatible TTL families.

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

- 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-B / JESD36
- ESD protection:
 - ◆ HBM JESD22-A114-C exceeds 2000 V
 - ◆ CDM JESD22-C101-C 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 | | | Version |
|-------------|-------------------|----------|--|----------|
| | Temperature range | Name | Description | |
| 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 |

PHILIPS

4. Functional diagram

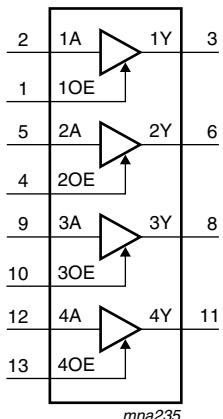


Fig 1. Logic symbol

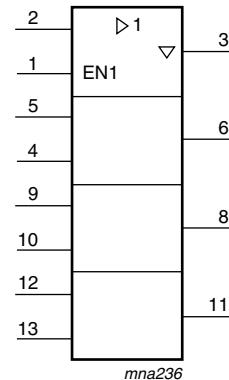


Fig 2. IEC logic symbol

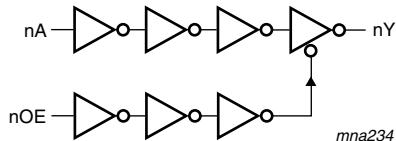


Fig 3. Logic diagram

5. Pinning information

5.1 Pinning

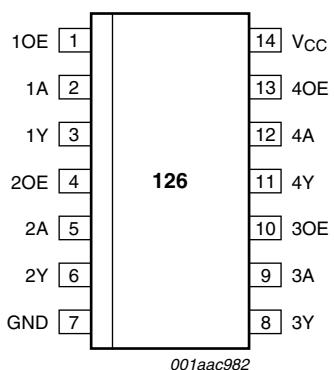
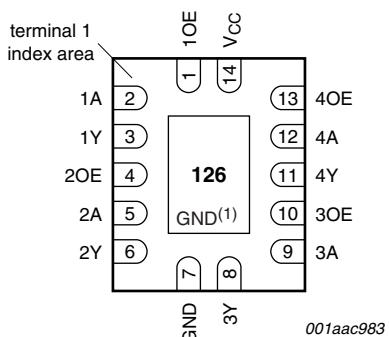


Fig 4. Pin configuration for SO14 and (T)SSOP14



(1) * The die substrate is attached to this pad using conductive die attach material. It can not be used as a supply pin or input.

Fig 5. Pin configuration for DHVQFN14

5.2 Pin description

Table 2: Pin description

| Symbol | Pin | Description |
|-----------------|-----|---------------------------------|
| 1OE | 1 | data enable input (active HIGH) |
| 1A | 2 | data input |
| 1Y | 3 | data output |
| 2OE | 4 | data enable input (active HIGH) |
| 2A | 5 | data input |
| 2Y | 6 | data output |
| GND | 7 | ground (0 V) |
| 3Y | 8 | data output |
| 3A | 9 | data input |
| 3OE | 10 | data enable input (active HIGH) |
| 4Y | 11 | data output |
| 4A | 12 | data input |
| 4OE | 13 | data enable input (active HIGH) |
| V _{CC} | 14 | supply voltage |

6. Functional description

Table 3: Functional table^[1]

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

[1] H = HIGH voltage level

L = LOW voltage level

X = don't care

Z = high impedance OFF-state.

7. Limiting values

Table 4: Limiting values

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

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

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

[2] For SO14 packages: above 70 °C the value of P_{tot} derates linearly with 8 mW/K.

For (T)SSOP14 packages: above 60 °C the value of P_{tot} derates linearly with 5.5 mW/K.

For DHVQFN14 packages: above 60 °C the value of P_{tot} derates linearly with 4.5 mW/K.

8. Recommended operating conditions

Table 5: Recommended operating conditions

| Symbol | Parameter | Conditions | Min | Typ | Max | Unit |
|------------------|--|-----------------------------------|-----|-----|-----------------|------|
| V _{CC} | supply voltage | | 1.2 | - | 3.6 | V |
| V _I | input voltage | | 0 | - | 5.5 | V |
| V _O | output voltage | output HIGH or LOW state | 0 | - | V _{CC} | V |
| | | output 3-state | 0 | - | 5.5 | V |
| T _{amb} | ambient temperature | in free air | -40 | - | +125 | °C |
| Δt/ΔV | input transition rise and fall rate | V _{CC} = 1.65 V to 2.7 V | 0 | - | 20 | ns/V |
| | | V _{CC} = 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 | Min | Typ ^[1] | Max | Unit | |
|--|---|--|------------------------|--------------------|------------------------|------|----|
| T_{amb} = -40 °C to +85 °C | | | | | | | |
| V _{IH} | HIGH-level input voltage | V _{CC} = 1.2 V | 1.08 | - | - | V | |
| | | V _{CC} = 1.65 V to 1.95 V | 0.65 × V _{CC} | - | - | V | |
| | | V _{CC} = 2.3 V to 2.7 V | 1.7 | - | - | V | |
| | | V _{CC} = 2.7 V to 3.6 V | 2.0 | - | - | V | |
| V _{IL} | LOW-level input voltage | V _{CC} = 1.2 V | - | - | 0.12 | V | |
| | | V _{CC} = 1.65 V to 1.95 V | - | - | 0.35 × V _{CC} | V | |
| | | V _{CC} = 2.3 V to 2.7 V | - | - | 0.7 | V | |
| | | V _{CC} = 2.7 V to 3.6 V | - | - | 0.8 | V | |
| V _{OH} | HIGH-level output voltage | V _I = V _{IH} or V _{IL} | | | | | |
| | | I _O = -100 µA; V _{CC} = 1.65 V to 3.6 V | V _{CC} - 0.2 | - | - | V | |
| | | I _O = -4 mA; V _{CC} = 1.65 V | V _{CC} - 0.45 | - | - | V | |
| | | I _O = -8 mA; V _{CC} = 2.3 V | V _{CC} - 0.5 | - | - | V | |
| | | I _O = -12 mA; V _{CC} = 2.7 V | V _{CC} - 0.5 | - | - | V | |
| | | I _O = -18 mA; V _{CC} = 3.0 V | V _{CC} - 0.6 | - | - | V | |
| | | I _O = -24 mA; V _{CC} = 3.0 V | V _{CC} - 0.8 | - | - | V | |
| V _{OL} | LOW-level output voltage | V _I = V _{IH} or V _{IL} | | | | | |
| | | I _O = 100 µA; V _{CC} = 1.65 V to 3.6 V | - | - | 0.2 | V | |
| | | I _O = 4 mA; V _{CC} = 1.65 V | - | - | 0.45 | V | |
| | | I _O = 8 mA; V _{CC} = 2.3 V | - | - | 0.6 | V | |
| | | I _O = 12 mA; V _{CC} = 2.7 V | - | - | 0.4 | V | |
| | | I _O = 24 mA; V _{CC} = 3.0 V | - | - | 0.55 | V | |
| I _I | input leakage current | V _{CC} = 3.6 V; V _I = 5.5 V or GND | - | ±0.1 | ±5 | µA | |
| I _{OZ} | OFF-state output current | V _I = V _{IH} or V _{IL} ; V _{CC} = 3.6 V; V _O = 5.5 V or GND; | [2] | - | ±0.1 | ±5 | µA |
| I _{OFF} | power-off leakage supply | V _{CC} = 0 V; V _I or V _O = 5.5 V | - | ±0.1 | ±10 | µA | |
| I _{CC} | supply current | V _{CC} = 3.6 V; V _I = V _{CC} or GND; I _O = 0 | - | 0.1 | 10 | µA | |
| ΔI _{CC} | additional supply current per input pin | V _{CC} = 2.7 V to 3.6 V; V _I = V _{CC} - 0.6 V; I _O = 0 | - | 5 | 500 | µA | |
| C _I | input capacitance | V _{CC} = 0 V to 3.6 V; V _I = GND to V _{CC} | - | 4.0 | - | pF | |
| T_{amb} = -40 °C to +125 °C | | | | | | | |
| V _{IH} | HIGH-level input voltage | V _{CC} = 1.2 V | 1.08 | - | - | V | |
| | | V _{CC} = 1.65 V to 1.95 V | 0.65 × V _{CC} | - | - | V | |
| | | V _{CC} = 2.3 V to 2.7 V | 1.7 | - | - | V | |
| | | V _{CC} = 2.7 V to 3.6 V | 2.0 | - | - | V | |
| V _{IL} | LOW-level input voltage | V _{CC} = 1.2 V | - | - | 0.12 | V | |
| | | V _{CC} = 1.65 V to 1.95 V | - | - | 0.35 × V _{CC} | V | |
| | | V _{CC} = 2.3 V to 2.7 V | - | - | 0.7 | V | |
| | | V _{CC} = 2.7 V to 3.6 V | - | - | 0.8 | V | |

Table 6: Static characteristics ...continued

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

| Symbol | Parameter | Conditions | Min | Typ ^[1] | Max | Unit | |
|-----------------|---|---|-----------------|--------------------|----------|----------|---------|
| V_{OH} | HIGH-level output voltage | $V_I = V_{IH}$ or V_{IL} | | | | | |
| | | $I_O = -100 \mu A$; $V_{CC} = 1.65 \text{ V}$ to 3.6 V | $V_{CC} - 0.3$ | - | - | V | |
| | | $I_O = -4 \text{ mA}$; $V_{CC} = 1.65 \text{ V}$ | $V_{CC} - 0.6$ | - | - | V | |
| | | $I_O = -8 \text{ mA}$; $V_{CC} = 2.3 \text{ V}$ | $V_{CC} - 0.65$ | - | - | V | |
| | | $I_O = -12 \text{ mA}$; $V_{CC} = 2.7 \text{ V}$ | $V_{CC} - 0.65$ | - | - | V | |
| | | $I_O = -18 \text{ mA}$; $V_{CC} = 3.0 \text{ V}$ | $V_{CC} - 0.75$ | - | - | V | |
| V_{OL} | LOW-level output voltage | $V_I = V_{IH}$ or V_{IL} | | | | | |
| | | $I_O = 100 \mu A$; $V_{CC} = 1.65 \text{ V}$ to 3.6 V | - | - | 0.3 | V | |
| | | $I_O = 4 \text{ mA}$; $V_{CC} = 1.65 \text{ V}$ | - | - | 0.65 | V | |
| | | $I_O = 8 \text{ mA}$; $V_{CC} = 2.3 \text{ V}$ | - | - | 0.8 | V | |
| | | $I_O = 12 \text{ mA}$; $V_{CC} = 2.7 \text{ V}$ | - | - | 0.6 | V | |
| | | $I_O = 24 \text{ mA}$; $V_{CC} = 3.0 \text{ V}$ | - | - | 0.8 | V | |
| I_I | input leakage current | $V_{CC} = 3.6 \text{ V}$; $V_I = 5.5 \text{ V}$ or GND | - | - | ± 20 | μA | |
| 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; | [2] | - | - | ± 20 | μA |
| I_{OFF} | power-off leakage supply | $V_{CC} = 0.0 \text{ V}$; V_I or $V_O = 5.5 \text{ V}$ | - | - | ± 20 | μA | |
| I_{CC} | supply current | $V_{CC} = 3.6 \text{ V}$; $V_I = V_{CC}$ or GND; $I_O = 0$ | - | - | 40 | μA | |
| ΔI_{CC} | additional supply current per input pin | $V_{CC} = 2.7 \text{ V}$ to 3.6 V ; $V_I = V_{CC} - 0.6 \text{ V}$; $I_O = 0$ | - | - | 5000 | μA | |

[1] All typical values are measured at $V_{CC} = 3.3 \text{ V}$ (unless stated otherwise) and $T_{amb} = 25^\circ\text{C}$.[2] For I/O ports, the parameter I_{OZ} includes the input leakage current.

10. Dynamic characteristics

Table 7: Dynamic characteristicsVoltages are referenced to GND (ground = 0 V). For test circuit see [Figure 8](#).

| Symbol | Parameter | Conditions | Min | Typ ^[1] | Max | Unit |
|--|---|---|-----|--------------------|------|------|
| $T_{amb} = -40^\circ\text{C}$ to $+85^\circ\text{C}$ | | | | | | |
| t_{PHL}, t_{PLH} | HIGH to LOW, LOW to HIGH propagation delay nA to nY | see Figure 6 | | | | |
| | | $V_{CC} = 1.2 \text{ V}$ | - | 11.0 | - | ns |
| | | $V_{CC} = 1.65 \text{ V}$ to 1.95 V | 1.2 | 5.2 | 10.2 | ns |
| | | $V_{CC} = 2.3 \text{ V}$ to 2.7 V | 0.8 | 2.8 | 5.3 | ns |
| | | $V_{CC} = 2.7 \text{ V}$ | 1.5 | 2.7 | 4.8 | ns |
| t_{PZH}, t_{PZL} | OFF-state to HIGH, OFF-state to LOW propagation delay nOE to nY | see Figure 7 | | | | |
| | | $V_{CC} = 1.2 \text{ V}$ | - | 15.0 | - | ns |
| | | $V_{CC} = 1.65 \text{ V}$ to 1.95 V | 2.2 | 6.7 | 11.9 | ns |
| | | $V_{CC} = 2.3 \text{ V}$ to 2.7 V | 1.8 | 3.8 | 6.6 | ns |
| | | $V_{CC} = 2.7 \text{ V}$ | 1.6 | 3.1 | 5.7 | ns |
| | | $V_{CC} = 3.0 \text{ V}$ to 3.6 V | 1.5 | 3.1 | 5.3 | ns |

Table 7: Dynamic characteristics ...continuedVoltages are referenced to GND (ground = 0 V). For test circuit see [Figure 8](#).

| Symbol | Parameter | Conditions | Min | Typ ^[1] | Max | Unit |
|--|---|---|-----|--------------------|------|------|
| t _{PHZ} , t _{PLZ} | HIGH to OFF-state, LOW to OFF-state propagation delay nOE to nY | see Figure 7 | | | | |
| | | V _{CC} = 1.2 V | - | 8.0 | - | ns |
| | | V _{CC} = 1.65 V to 1.95 V | 1.1 | 3.3 | 7.6 | ns |
| | | V _{CC} = 2.3 V to 2.7 V | 0.5 | 1.8 | 4.3 | ns |
| | | V _{CC} = 2.7 V | 2.3 | 3.4 | 5.0 | ns |
| | | V _{CC} = 3.0 V to 3.6 V | 1.4 | 2.5 | 4.6 | ns |
| t _{sk(o)} | output skew time | V _{CC} = 3.0 V to 3.6 V | [2] | - | 1.0 | ns |
| T_{amb} = -40 °C to +125 °C | | | | | | |
| t _{PHL} , t _{PLH} | HIGH to LOW, LOW to HIGH propagation delay nA to nY | see Figure 6 | | | | |
| | | V _{CC} = 1.2 V | - | - | - | ns |
| | | V _{CC} = 1.65 V to 1.95 V | 1.2 | - | 13.0 | ns |
| | | V _{CC} = 2.3 V to 2.7 V | 0.8 | - | 7.0 | ns |
| | | V _{CC} = 2.7 V | 1.5 | - | 6.0 | ns |
| | | V _{CC} = 3.0 V to 3.6 V | 1.1 | - | 6.0 | ns |
| t _{PZH} , t _{PZL} | OFF-state to HIGH, OFF-state to LOW propagation delay nOE to nY | see Figure 7 | | | | |
| | | V _{CC} = 1.2 V | - | - | - | ns |
| | | V _{CC} = 1.65 V to 1.95 V | 2.2 | - | 15.0 | ns |
| | | V _{CC} = 2.3 V to 2.7 V | 1.8 | - | 8.5 | ns |
| | | V _{CC} = 2.7 V | 1.6 | - | 7.0 | ns |
| | | V _{CC} = 3.0 V to 3.6 V | 1.5 | - | 7.0 | ns |
| t _{PHZ} , t _{PLZ} | HIGH to OFF-state, LOW to OFF-state propagation delay nOE to nY | see Figure 7 | | | | |
| | | V _{CC} = 1.2 V | - | - | - | ns |
| | | V _{CC} = 1.65 V to 1.95 V | 1.1 | - | 9.5 | ns |
| | | V _{CC} = 2.3 V to 2.7 V | 0.5 | - | 5.5 | ns |
| | | V _{CC} = 2.7 V | 2.3 | - | 6.5 | ns |
| | | V _{CC} = 3.0 V to 3.6 V | 1.4 | - | 6.0 | ns |
| t _{sk(o)} | output skew time | V _{CC} = 3.0 V to 3.6 V | [2] | - | 1.5 | ns |
| T_{amb} = 25 °C | | | | | | |
| C _{PD} | power dissipation capacitance per gate. | V _I = GND to V _{CC} | [3] | | | |
| | | V _{CC} = 1.65 V to 1.95 V | - | 6.0 | - | pF |
| | | V _{CC} = 2.3 V to 2.7 V | - | 9.0 | - | pF |
| | | V _{CC} = 3.0 V to 3.6 V | - | 12 | - | pF |

[1] Typical values are measured at T_{amb} = 25 °C and V_{CC} = 1.8 V, 2.5 V, 2.7 V, and 3.3 V respectively.

[2] Skew between any two outputs of the same package switching in the same direction. This parameter is guaranteed by design.

[3] C_{PD} is used to determine the dynamic power dissipation (P_D in μ W).

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

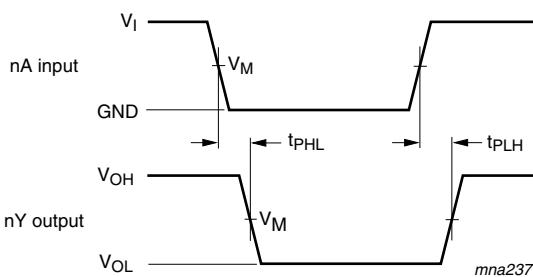
where:

f_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,

$\Sigma(C_L \times V_{CC}^2 \times f_0) = \text{sum of the outputs.}$

11. AC waveforms

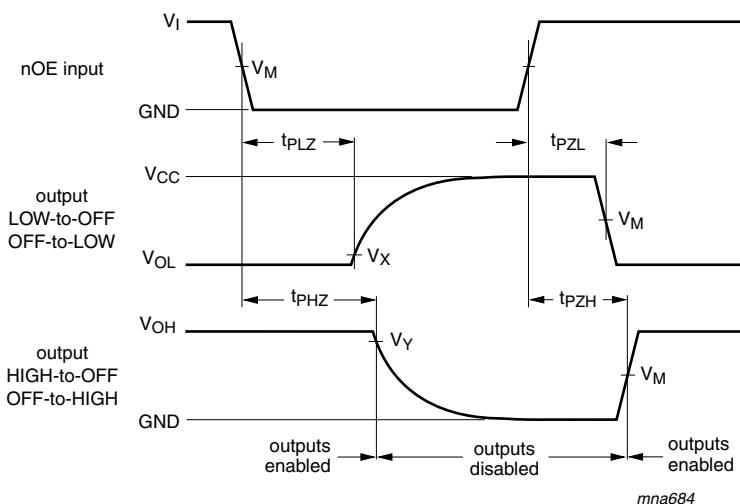


$V_M = 1.5 \text{ V at } V_{CC} \geq 2.7 \text{ V};$

$V_M = 0.5 \times V_{CC} \text{ at } V_{CC} < 2.7 \text{ V};$

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

Fig 6. The input nA to output nY propagation delays



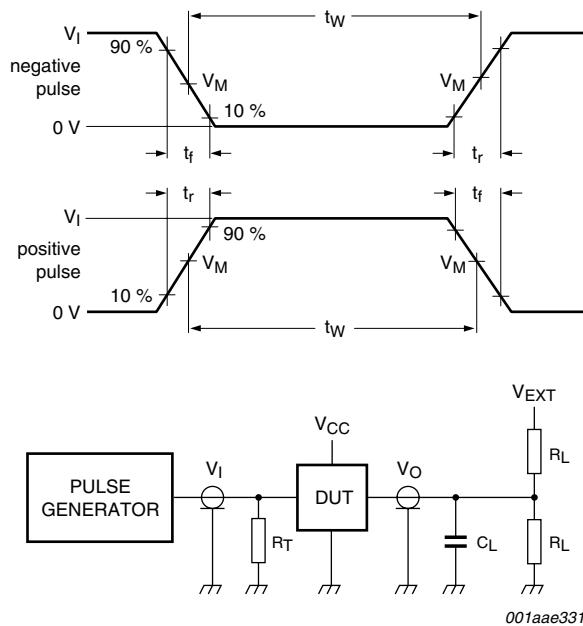
Measurement points are given in [Table 8](#).

V_{OL} and V_{OH} are typical output voltage drops 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 | $V_{OL} + 0.3 \text{ V}$ | $V_{OH} - 0.3 \text{ V}$ |



001aae331

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_0 of the pulse generator.

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

Fig 8. Load circuitry for switching times

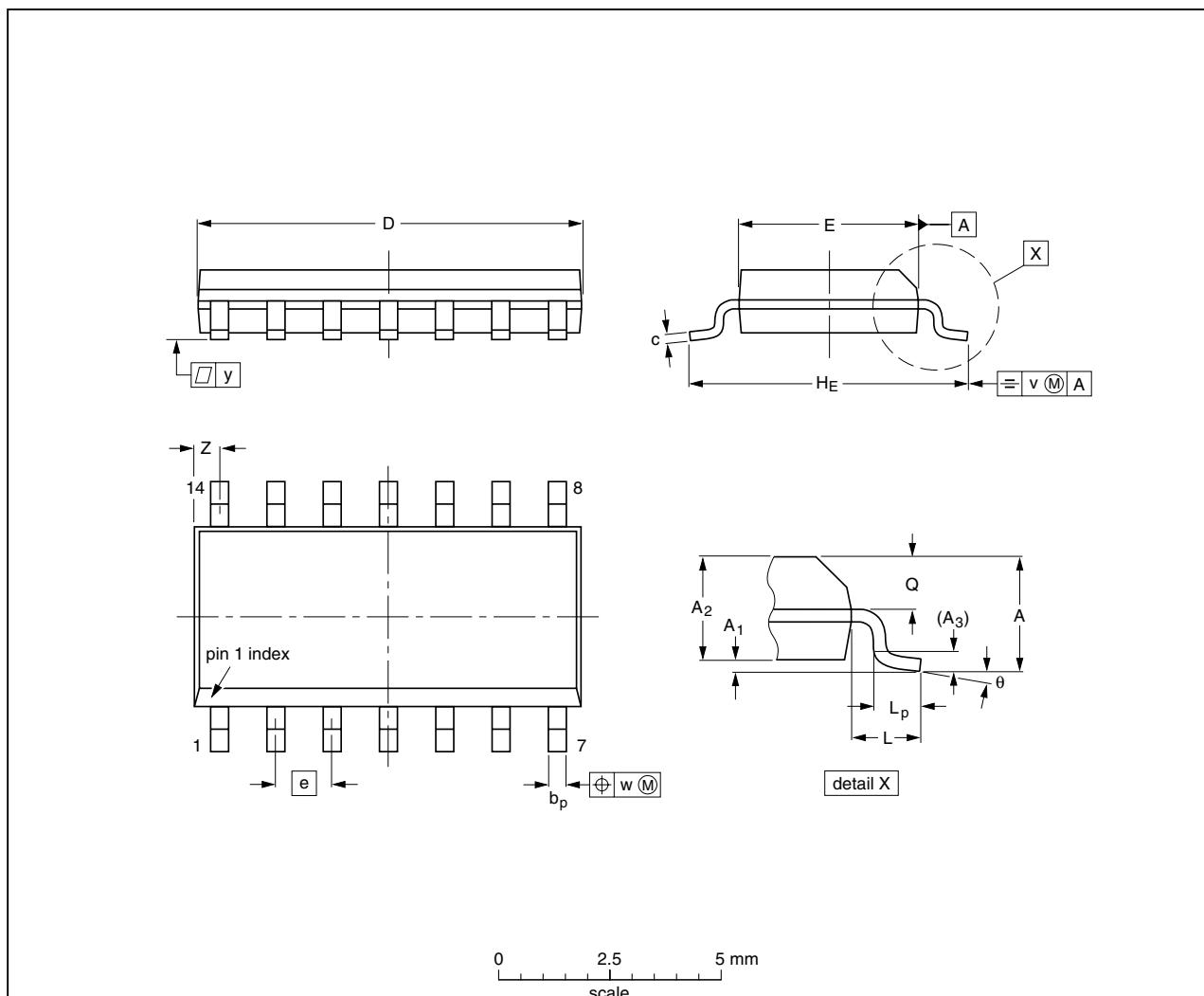
Table 9: Test data

| 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} |
| 1.65 V to 1.95 V | V_{CC} | ≤ 2 ns | 30 pF | 1 k Ω | open | $2 \times V_{CC}$ | GND |
| 2.3 V to 2.7 V | V_{CC} | ≤ 2 ns | 30 pF | 500 Ω | open | $2 \times V_{CC}$ | GND |
| 2.7 V | 2.7 V | ≤ 2.5 ns | 50 pF | 500 Ω | open | 6 V | GND |
| 3.0 V to 3.6 V | 2.7 V | ≤ 2.5 ns | 50 pF | 500 Ω | open | 6 V | GND |

12. Package outline

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

SOT108-1



DIMENSIONS (inch dimensions are derived from the original mm dimensions)

| UNIT | A max. | A ₁ | A ₂ | A ₃ | b _p | c | D ⁽¹⁾ | E ⁽¹⁾ | e | H _E | L | L _p | Q | v | w | y | z ⁽¹⁾ | θ |
|--------|----------------|----------------|-----------------|----------------|-----------------|-----------------|------------------|------------------|------|----------------|-------|----------------|----------------|------|------|-------|------------------|----|
| mm | 1.75 0.10 | 0.25 0.36 | 1.45 0.19 | 0.25 | 0.49 0.36 | 0.25 0.19 | 8.75 8.55 | 4.0 3.8 | 1.27 | 6.2 5.8 | 1.05 | 1.0 0.4 | 0.7 0.6 | 0.25 | 0.25 | 0.1 | 0.7 0.3 | 8° |
| inches | 0.069 0.004 | 0.010 0.014 | 0.057 0.0075 | 0.049 | 0.019 0.0100 | 0.0100 0.035 | 0.35 0.34 | 0.16 0.15 | 0.05 | 0.244 0.228 | 0.041 | 0.039 0.016 | 0.028 0.024 | 0.01 | 0.01 | 0.004 | 0.028 0.012 | 0° |

Note

- Plastic or metal protrusions of 0.15 mm (0.006 inch) maximum per side are not included.

| OUTLINE VERSION | REFERENCES | | | | EUROPEAN PROJECTION | ISSUE DATE |
|-----------------|------------|--------|-------|--|---------------------|-------------------|
| | IEC | JEDEC | JEITA | | | |
| SOT108-1 | 076E06 | MS-012 | | | | 99-12-27-03-02-19 |

Fig 9. Package outline SOT108-1 (SO14)

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

SOT337-1

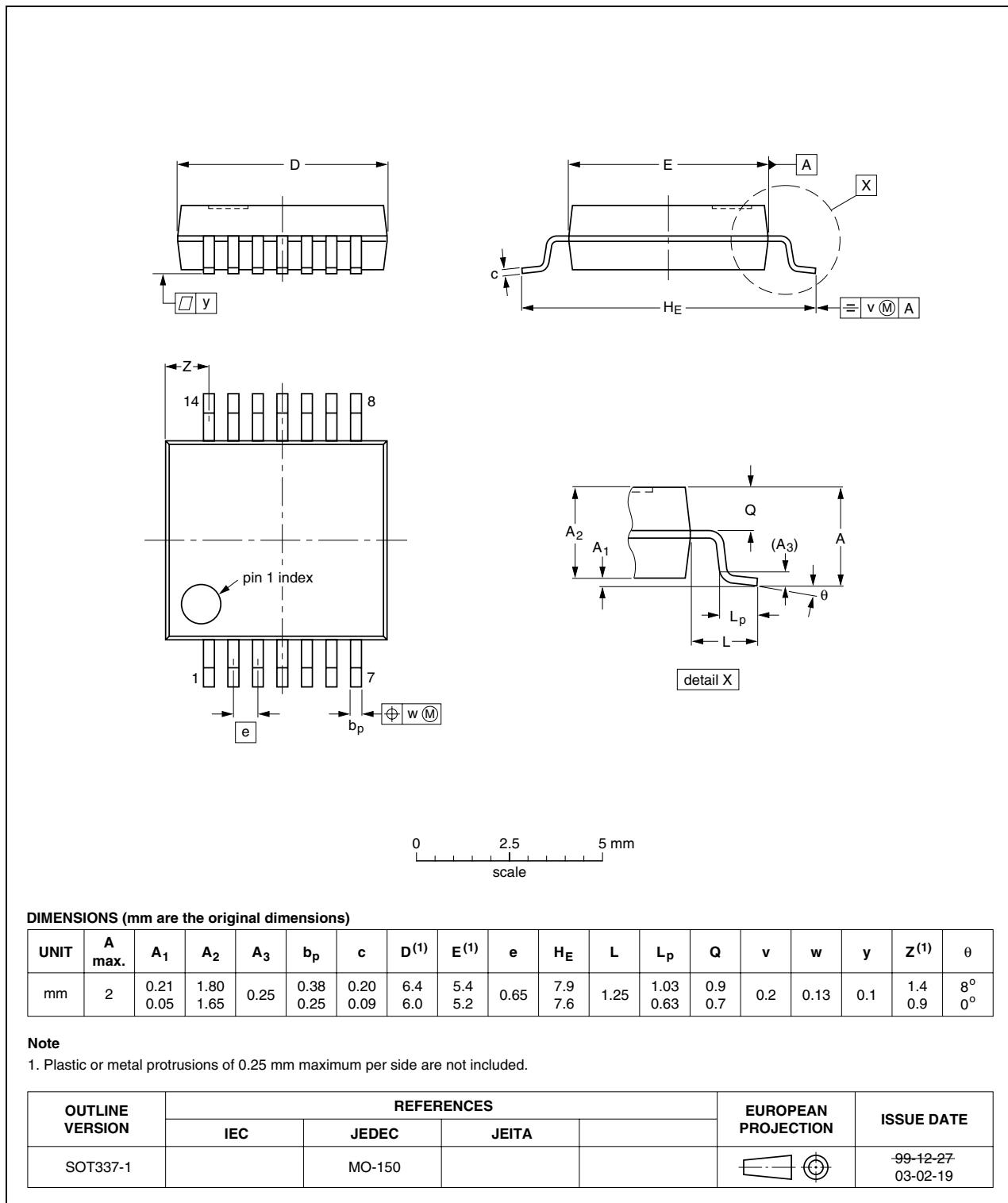


Fig 10. Package outline SOT337-1 (SSOP14)

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

SOT402-1

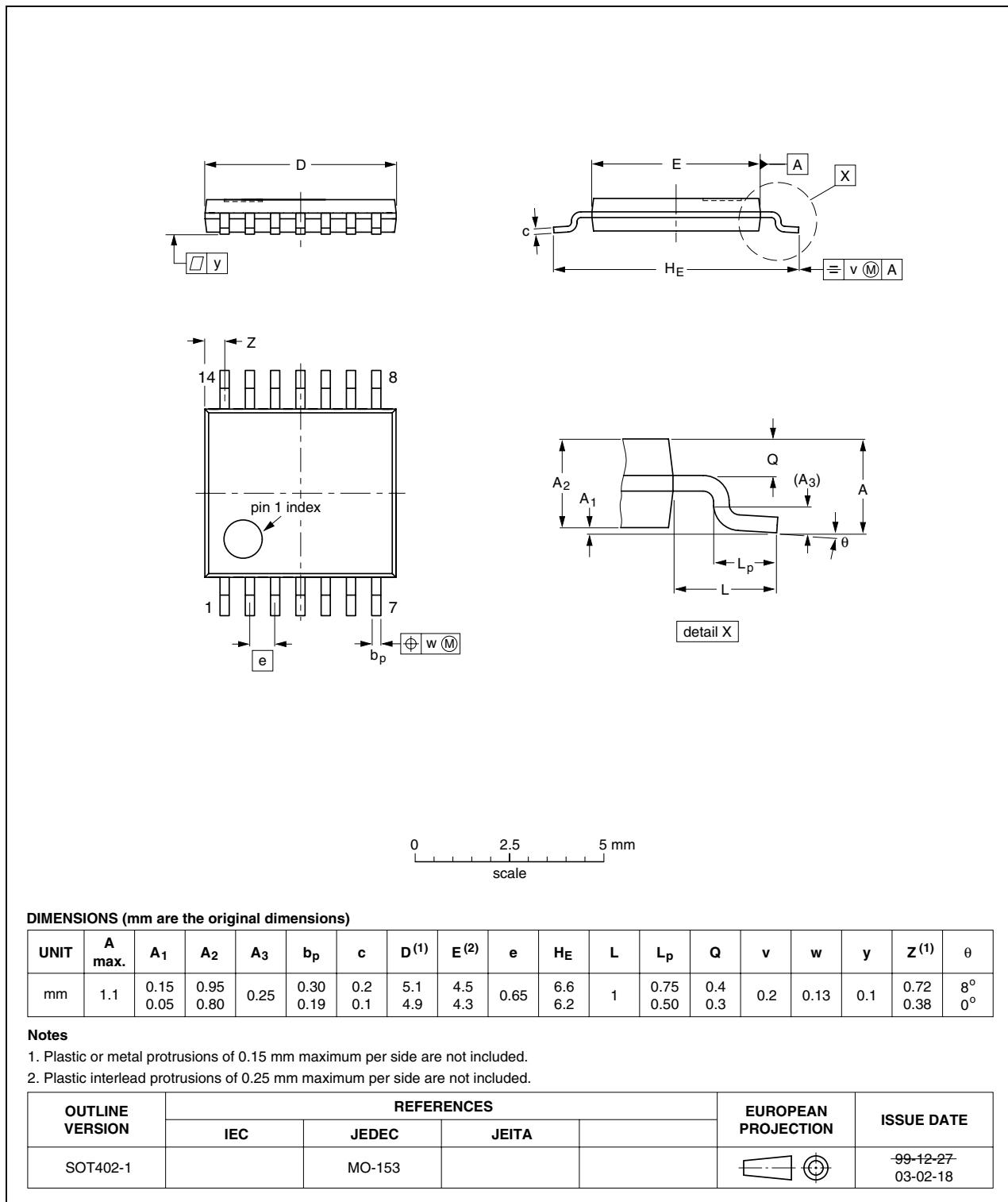


Fig 11. Package outline SOT402-1 (TSSOP14)

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

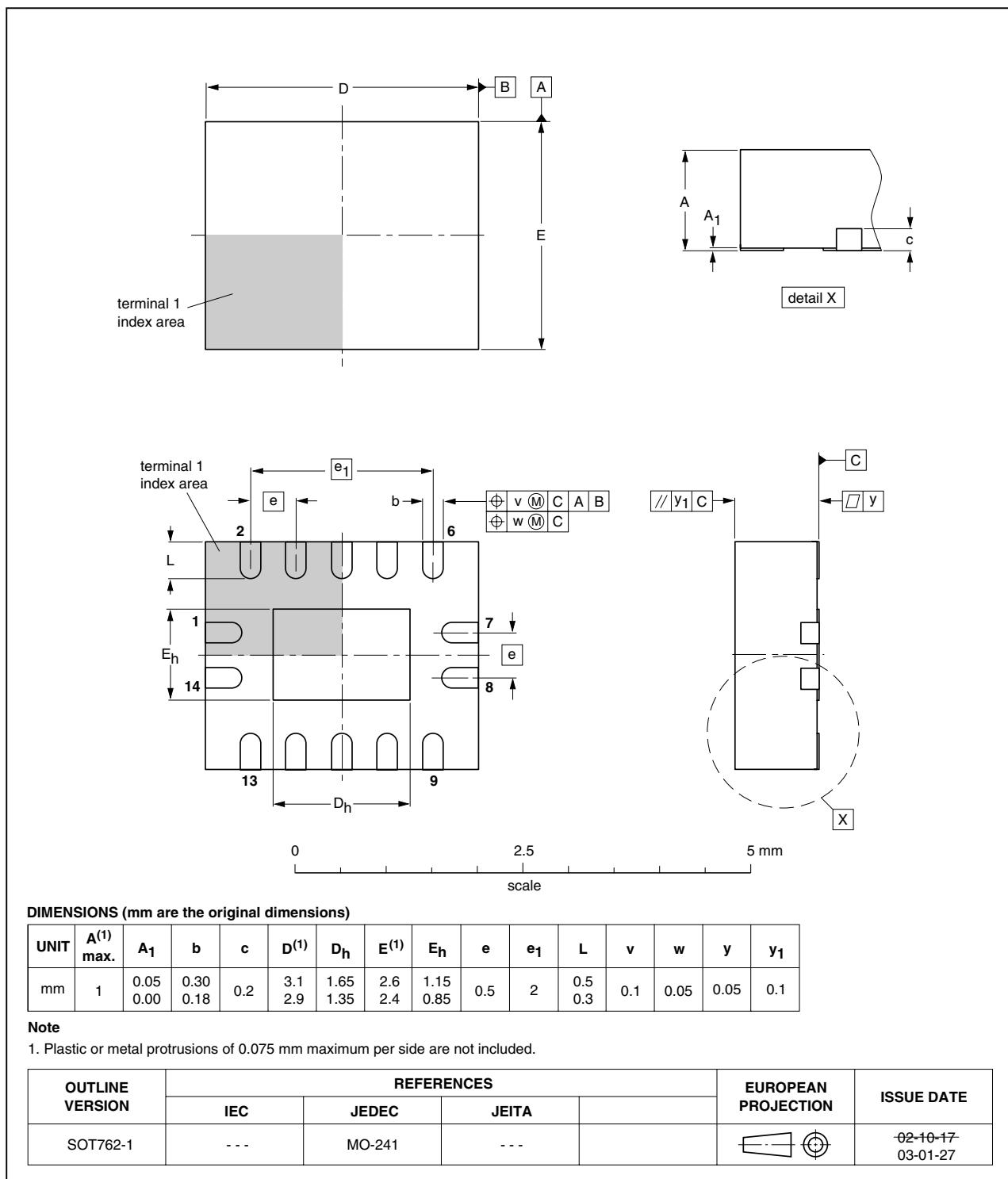


Fig 12. Package outline SOT762-1 (DHVQFN14)

13. 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 |
| TTL | Transistor Transistor Logic |

14. Revision history

Table 11. Revision history

| Document ID | Release date | Data sheet status | Change notice | Supersedes |
|---------------------------------|--------------|-----------------------|---|-------------|
| 74LVC126A_6 Modifications: | <tbd> | Product data sheet | - | 74LVC126A_5 |
| | | | <ul style="list-style-type: none"> • The format of this data sheet is redesigned to comply with the current presentation and information standard of Philips Semiconductors. • Table 4, Table 5, Table 6, Table 7 and Table 9: values added for lower voltage ranges. | |
| 74LVC126A_5 (9397 750 10533) | 030228 | Product specification | - | 74LVC126A_4 |
| 74LVC126A_4 (9397 750 09447) | 020308 | Product specification | - | 74LVC126A_3 |
| 74LVC126A_3 (9397 750 04492) | 980428 | Product specification | - | 74LVC126A_2 |
| 74LVC126A_2 | 970801 | Product specification | - | 74LVC126A_1 |
| 74LVC126A_1 | - | - | - | - |

15. Legal information

15.1 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. |

[1] Please consult the most recently issued document before initiating or completing a design.

[2] The term 'short data sheet' is explained in section "Definitions".

[3] The product status of device(s) described in this document may have changed since this document was published and may differ in case of multiple devices. The latest product status information is available on the Internet at URL <http://www.semiconductors.philips.com>.

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