74AHC126; 74AHCT126

Quad buffer/line driver; 3-state Rev. 6 — 30 August 2023

Product data sheet

1. General description

The 74AHC126; 74AHCT126 is a quad buffer/line driver with 3-state outputs controlled by the output enable inputs (nOE). A LOW on nOE causes the outputs to assume a high-impedance OFF-state. Inputs are overvoltage tolerant. This feature allows the use of these devices as translators in mixed voltage environments.

2. Features and benefits

- Balanced propagation delays
- All inputs have Schmitt-trigger action
- Inputs accept voltages higher than V_{CC}
- Input levels:
 - For 74AHC126: CMOS level
 - For 74AHCT126: TTL level
- 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

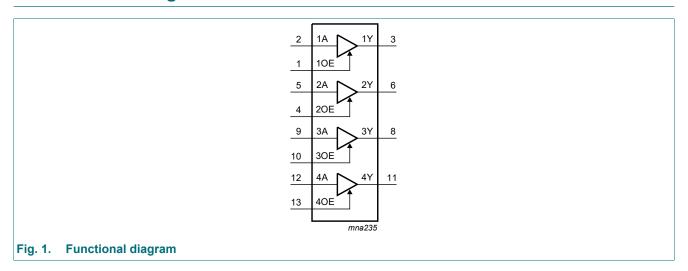
3. Ordering information

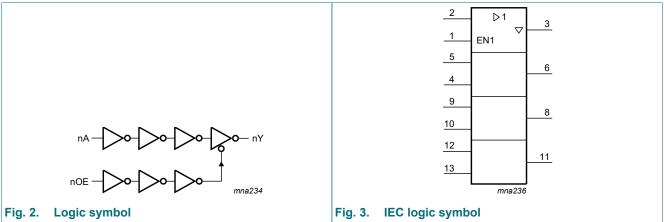
Table 1. Ordering information

| Type number | Package | Package | | | | | | | | | | | |
|---------------------------|-------------------|----------|------------------------------------------------------------------------------------------------------------------------------|----------|--|--|--|--|--|--|--|--|--|
| | Temperature range | Name | Description | Version | | | | | | | | | |
| 74AHC126D 74AHCT126D | -40 °C to +125 °C | SO14 | plastic small outline package; 14 leads; body width 3.9 mm | SOT108-1 | | | | | | | | | |
| 74AHC126PW 74AHCT126PW | -40 °C to +125 °C | TSSOP14 | plastic thin shrink small outline package; 14 leads; body width 4.4 mm | SOT402-1 | | | | | | | | | |
| 74AHC126BQ 74AHCT126BQ | -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 | | | | | | | | | |



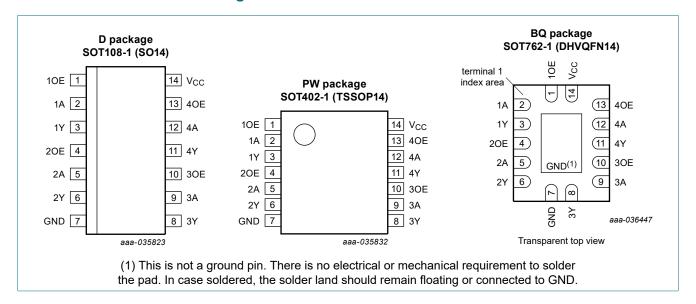
4. Functional diagram





5. Pinning information

5.1. Pinning



5.2. Pin description

Table 2. Pin description

| Symbol | Pin | Description |
|--------|-----|-------------------------------------|
| 10E | 1 | output enable input 1 (active HIGH) |
| 1A | 2 | data input 1 |
| 1Y | 3 | data output 1 |
| 20E | 4 | output enable input 2 (active HIGH) |
| 2A | 5 | data input 2 |
| 2Y | 6 | data output 2 |
| GND | 7 | ground (0 V) |
| 3Y | 8 | data output 3 |
| 3A | 9 | data input 3 |
| 30E | 10 | output enable input 3 (active HIGH) |
| 4Y | 11 | data output 4 |
| 4A | 12 | data input 4 |
| 40E | 13 | output enable input 4 (active HIGH) |
| Vcc | 14 | supply voltage |

6. Functional description

Table 3. Function table

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

| Control | Input | Output |
|---------|-------|--------|
| nOE | nA | nY |
| Н | L | L |
| Н | Н | Н |
| L | X | Z |

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 |
| VI | input voltage | | -0.5 | +7.0 | V |
| I _{IK} | input clamping current | $V_{I} < -0.5 \text{ V}$ [1] | -20 | - | mA |
| I _{OK} | output clamping current | $V_O < -0.5 \text{ V or } V_O > V_{CC} + 0.5 \text{ V}$ [1] | -20 | +20 | mA |
| Io | output current | $V_{O} = -0.5 \text{ V to } (V_{CC} + 0.5 \text{ V})$ | -25 | +25 | mA |
| I _{CC} | supply current | | - | +75 | mA |
| I _{GND} | ground current | | -75 | - | mA |
| T _{stg} | storage temperature | | -65 | +150 | °C |
| P _{tot} | total power dissipation | T _{amb} = -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.

8. Recommended operating conditions

Table 5. Recommended operating conditions

Voltages are referenced to GND (ground = 0 V)

| Symbol | Parameter | Conditions | 7 | '4AHC12 | 6 | 74 | AHCT1 | 26 | Unit |
|------------------|---------------------------|----------------------------------|-----|---------|-----------------|-----|-------|-----------------|------|
| | | | Min | Тур | Max | Min | Тур | Max | |
| V_{CC} | supply voltage | | 2.0 | 5.0 | 5.5 | 4.5 | 5.0 | 5.5 | V |
| VI | input voltage | | 0 | - | 5.5 | 0 | - | 5.5 | V |
| Vo | output voltage | | 0 | - | V _{CC} | 0 | - | V _{CC} | V |
| T _{amb} | ambient temperature | | -40 | +25 | +125 | -40 | +25 | +125 | °C |
| Δt/ΔV | input transition rise and | V _{CC} = 3.0 V to 3.6 V | - | - | 100 | - | - | - | ns/V |
| | fall rate | V _{CC} = 4.5 V to 5.5 V | - | - | 20 | - | - | 20 | ns/V |

^[2] For SOT108-1 (SO14) package: Ptot derates linearly with 10.1 mW/K above 100 °C.

For SOT402-1 (TSSOP14) package: Ptot derates linearly with 7.3 mW/K above 81 °C.

For SOT762-1 (DHVQFN14) package: Ptot derates linearly with 9.6 mW/K above 98 °C.

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 t | o +125 °C | Unit |
|-----------------|--------------------------|------------------------------------------------------------------------------------|------|-------|-------|--------|-----------|----------|-----------|------|
| | | | Min | Тур | Max | Min | Max | Min | Max | |
| 74AHC1 | 26 | | | | | ' | | | , | |
| V _{IH} | HIGH-level | V _{CC} = 2.0 V | 1.5 | - | - | 1.5 | - | 1.5 | - | V |
| | input voltage | V _{CC} = 3.0 V | 2.1 | - | - | 2.1 | - | 2.1 | - | V |
| | | V _{CC} = 5.5 V | 3.85 | - | - | 3.85 | - | 3.85 | - | V |
| V _{IL} | LOW-level | V _{CC} = 2.0 V | - | - | 0.5 | - | 0.5 | - | 0.5 | V |
| | input voltage | V _{CC} = 3.0 V | - | - | 0.9 | - | 0.9 | - | 0.9 | V |
| | | V _{CC} = 5.5 V | - | - | 1.65 | - | 1.65 | - | 1.65 | V |
| V _{OH} | HIGH-level | V _I = V _{IH} or V _{IL} | | | | | | | | |
| | output voltage | I _O = -50 μA; V _{CC} = 2.0 V | 1.9 | 2.0 | - | 1.9 | - | 1.9 | - | V |
| | | I _O = -50 μA; V _{CC} = 3.0 V | 2.9 | 3.0 | - | 2.9 | - | 2.9 | - | V |
| | | I _O = -50 μA; V _{CC} = 4.5 V | 4.4 | 4.5 | - | 4.4 | - | 4.4 | - | V |
| | | $I_O = -4.0 \text{ mA}; V_{CC} = 3.0 \text{ V}$ | 2.58 | - | - | 2.48 | - | 2.40 | - | V |
| | | I_{O} = -8.0 mA; V_{CC} = 4.5 V | 3.94 | - | - | 3.80 | - | 3.70 | - | V |
| V _{OL} | LOW-level output voltage | $V_I = V_{IH}$ or V_{IL} | | | | | | | | |
| | output voltage | $I_O = 50 \mu A; V_{CC} = 2.0 V$ | - | 0 | 0.1 | - | 0.1 | - | 0.1 | V |
| | | $I_O = 50 \mu A; V_{CC} = 3.0 V$ | - | 0 | 0.1 | - | 0.1 | - | 0.1 | V |
| | | I _O = 50 μA; V _{CC} = 4.5 V | - | 0 | 0.1 | - | 0.1 | - | 0.1 | V |
| | | $I_O = 4.0 \text{ mA}; V_{CC} = 3.0 \text{ V}$ | - | - | 0.36 | - | 0.44 | - | 0.55 | V |
| | | $I_O = 8.0 \text{ mA}; V_{CC} = 4.5 \text{ V}$ | - | - | 0.36 | - | 0.44 | - | 0.55 | V |
| I _I | input leakage current | V _I = 5.5 V or GND; V _{CC} = 0 V to 5.5 V | - | - | 0.1 | - | 1.0 | - | 2.0 | μA |
| l _{OZ} | OFF-state output current | $V_I = V_{IH}$ or V_{IL} ; $V_O = V_{CC}$ or GND; $V_{CC} = 5.5 \text{ V}$ | - | - | ±0.25 | - | ±2.5 | - | ±10.0 | μA |
| I _{CC} | supply current | $V_I = V_{CC}$ or GND; $I_O = 0$ A; $V_{CC} = 5.5 \text{ V}$ | - | - | 2.0 | - | 20 | - | 40 | μA |
| C _I | input capacitance | V _I = V _{CC} or GND | - | 3 | 10 | - | 10 | - | 10 | pF |
| C _O | output capacitance | | - | 4 | - | - | - | - | - | pF |

| Symbol | Parameter | Conditions | | 25 °C | | | to +85 °C | -40 °C t | o +125 °C | Unit |
|------------------|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|------|-------|-------|------|-----------|----------|-----------|------|
| | | | Min | Тур | Max | Min | Max | Min | Max | |
| 74AHCT | 126 | | | | | | | · | | |
| V _{IH} | HIGH-level input voltage | V _{CC} = 4.5 V to 5.5 V | 2.0 | - | - | 2.0 | - | 2.0 | - | V |
| V _{IL} | LOW-level input voltage | V _{CC} = 4.5 V to 5.5 V | - | - | 0.8 | - | 0.8 | - | 0.8 | V |
| V _{OH} | HIGH-level | $V_I = V_{IH}$ or V_{IL} ; $V_{CC} = 4.5 \text{ V}$ | | | | | | | | |
| | output voltage | I _O = -50 μA | 4.4 | 4.5 | - | 4.4 | - | 4.4 | - | V |
| | | I _O = -8.0 mA | 3.94 | - | - | 3.80 | - | 3.70 | - | V |
| V_{OL} | LOW-level | $V_I = V_{IH}$ or V_{IL} ; $V_{CC} = 4.5 \text{ V}$ | | | | | | | | |
| | output voltage | I _O = 50 μA | - | 0 | 0.1 | - | 0.1 | - | 0.1 | V |
| | | I _O = 8.0 mA | - | - | 0.36 | - | 0.44 | - | 0.55 | V |
| l _l | input leakage current | V _I = 5.5 V or GND; V _{CC} = 0 V to 5.5 V | - | - | 0.1 | - | 1.0 | - | 2.0 | μA |
| I _{OZ} | OFF-state output current | $V_I = V_{IH}$ or V_{IL} ; $V_O = V_{CC}$ or GND; $V_{CC} = 5.5 \text{ V}$ | - | - | ±0.25 | - | ±2.5 | - | ±10.0 | μΑ |
| I _{CC} | supply current | $V_I = V_{CC}$ or GND; $I_O = 0$ A; $V_{CC} = 5.5 \text{ V}$ | - | - | 2.0 | - | 20 | - | 40 | μA |
| ΔI _{CC} | additional supply current | per input pin; $V_I = V_{CC} - 2.1 \text{ V}$; other pins at V_{CC} or GND; $I_O = 0 \text{ A}$; $V_{CC} = 4.5 \text{ V}$ to 5.5 V | - | - | 1.35 | - | 1.5 | - | 1.5 | mA |
| Cı | input capacitance | V _I = V _{CC} or GND | - | 3 | 10 | - | 10 | - | 10 | pF |
| Co | output capacitance | | - | 4 | - | - | - | - | - | pF |

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 1 | to +85 °C | -40 °C t | o +125 °C | Unit |
|-----------------|-------------|----------------------------------|-----|--------|------|----------|-----------|----------|-----------|------|
| | | | Min | Typ[1] | Max | Min | Max | Min | Max | |
| 74AHC1 | 26 | | | | | | | | | |
| t _{pd} | propagation | nA to nY; see Fig. 4 [2] | | | | | | | | |
| | delay | V _{CC} = 3.0 V to 3.6 V | | | | | | | | |
| | | C _L = 15 pF | - | 4.7 | 8.0 | 1.0 | 9.5 | 1.0 | 10.0 | ns |
| | | C _L = 50 pF | - | 6.7 | 11.5 | 1.0 | 13.0 | 1.0 | 14.5 | ns |
| | | V _{CC} = 4.5 V to 5.5 V | | | | | | | | |
| | | C _L = 15 pF | | 3.3 | 5.5 | 1.0 | 6.5 | 1.0 | 7.0 | ns |
| | | C _L = 50 pF | - | 4.7 | 7.5 | 1.0 | 8.5 | 1.0 | 9.5 | ns |

| Symbol | Parameter | Conditions | | | 25 °C | | -40 °C | to +85 °C | -40 °C t | o +125 °C | Unit |
|------------------|-------------------------------------|--------------------------------------------------------------------|-----|-----|--------|------|--------|-----------|----------|-----------|------|
| | | | | Min | Typ[1] | Max | Min | Max | Min | Max | |
| t _{en} | enable time | nOE to nY; see Fig. 5 | [3] | | | | | | | | |
| | | V _{CC} = 3.0 V to 3.6 V | | | | | | | | | |
| | | C _L = 15 pF | | - | 5.3 | 8.0 | 1.0 | 9.5 | 1.0 | 10.0 | ns |
| | | C _L = 50 pF | | - | 7.6 | 11.5 | 1.0 | 13.0 | 1.0 | 14.5 | ns |
| | | V _{CC} = 4.5 V to 5.5 V | | | | | | | | | |
| | | C _L = 15 pF | | - | 3.6 | 5.3 | 1.0 | 6.1 | 1.0 | 7.0 | ns |
| | | C _L = 50 pF | | - | 5.1 | 7.6 | 1.0 | 8.7 | 1.0 | 9.5 | ns |
| t _{dis} | disable time | nOE to nY; see Fig. 5 | [4] | | | | | | | | |
| | | V _{CC} = 3.0 V to 3.6 V | | | | | | | | | |
| | | C _L = 15 pF | | - | 6.6 | 9.7 | 1.0 | 11.5 | 1.0 | 12.5 | ns |
| | | C _L = 50 pF | | - | 9.4 | 13.2 | 1.0 | 15.0 | 1.0 | 16.5 | ns |
| | | V _{CC} = 4.5 V to 5.5 V | | | | | | | | | |
| | | C _L = 15 pF | | - | 4.7 | 6.8 | 1.0 | 8.0 | 1.0 | 8.5 | ns |
| | | C _L = 50 pF | | - | 6.7 | 8.8 | 1.0 | 10.0 | 1.0 | 11.0 | ns |
| C _{PD} | power dissipation capacitance | f _i = 1 MHz; V _I = GND to V _{CC} | [5] | - | 10 | - | - | - | - | - | pF |
| 74AHCT | 126 | | | | | | | | | | |
| t _{pd} | propagation | nA to nY; see Fig. 4 | [2] | | | | | | | | |
| | delay | V _{CC} = 4.5 V to 5.5 V | | | | | | | | | |
| | | C _L = 15 pF | | - | 3.0 | 5.5 | 1.0 | 6.5 | 1.0 | 7.0 | ns |
| | | C _L = 50 pF | | - | 4.3 | 7.5 | 1.0 | 8.5 | 1.0 | 9.5 | ns |
| t _{en} | enable time | nOE to nY; see Fig. 5 | [3] | | | | | | | | |
| | | V _{CC} = 4.5 V to 5.5 V | | | | | | | | | |
| | | C _L = 15 pF | | - | 3.3 | 5.1 | 1.0 | 6.0 | 1.0 | 6.5 | ns |
| | | C _L = 50 pF | | - | 4.7 | 7.1 | 1.0 | 8.0 | 1.0 | 9.0 | ns |
| t _{dis} | disable time | nOE to nY; see Fig. 5 | [4] | | | | | | | | |
| | | V _{CC} = 4.5 V to 5.5 V | | | | | | | | | |
| | | C _L = 15 pF | | - | 4.8 | 6.8 | 1.0 | 8.0 | 1.0 | 8.5 | ns |
| | | C _L = 50 pF | | - | 6.9 | 8.9 | 1.0 | 10.0 | 1.0 | 11.5 | ns |
| C _{PD} | power dissipation capacitance | f _i = 1 MHz; V _I = GND to V _{CC} | [5] | - | 12 | - | - | - | - | - | pF |

^[1] Typical values are measured at nominal supply voltage (V_{CC} = 3.3 V and V_{CC} = 5.0 V).

f_i = input frequency in MHz;

f_o = output frequency in MHz;

C_L = output load capacitance in pF;

V_{CC} = supply voltage in V;

N = number of inputs switching;

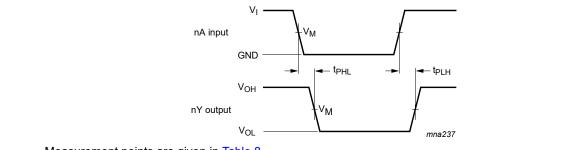
 $\Sigma(C_L \times V_{CC}^2 \times f_o) = \text{sum of the outputs.}$

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] [4]

^[5] C_{PD} is used to determine the dynamic power dissipation (P_D in μ W). $P_D = C_{PD} \times V_{CC}^2 \times f_i \times N + \Sigma (C_L \times V_{CC}^2 \times f_o)$ where:

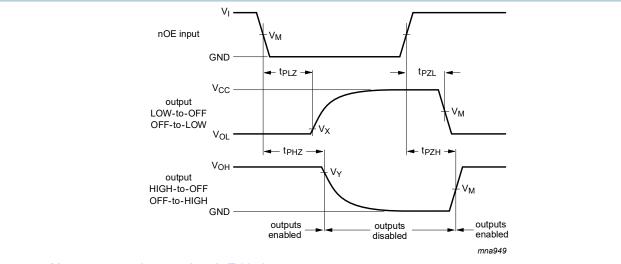
10.1. Waveforms and test circuit



Measurement points are given in Table 8.

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

Fig. 4. Input to output propagation delays



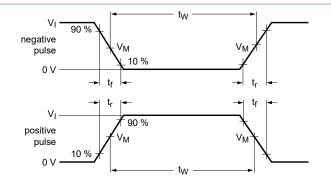
Measurement points are given in <u>Table 8</u>.

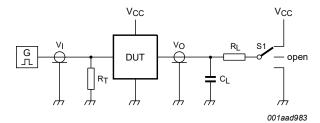
V_{OL} and V_{OH} are typical voltage output levels that occur with the output load.

Fig. 5. Enable and disable times

Table 8. Measurement points

| Туре | Input | Output | Dutput | | | | | | | | |
|-----------|-----------------------|-----------------------|-------------------------|-------------------------|--|--|--|--|--|--|--|
| | V _M | V _M | V _X | V _Y | | | | | | | |
| 74AHC126 | 0.5 x V _{CC} | 0.5 x V _{CC} | V _{OL} + 0.3 V | V _{OH} - 0.3 V | | | | | | | |
| 74AHCT126 | 1.5 V | 0.5 x V _{CC} | V _{OL} + 0.3 V | V _{OH} - 0.3 V | | | | | | | |





Test data is given in Table 9.

Definitions test circuit:

 R_T = termination resistance should be equal to output impedance Z_o of the pulse generator.

 C_L = load capacitance including jig and probe capacitance.

R_L = load resistance.

S1 = test selection switch.

Fig. 6. Test circuit for measuring switching times

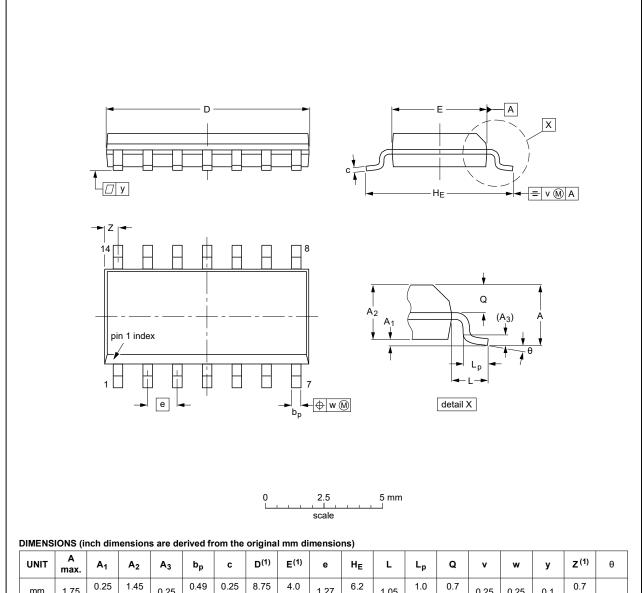
Table 9. Test data

| Туре | Input | | Load | | S1 position | | |
|-----------|-----------------|---------------------------------|----------------|-------|-------------------------------------|-------------------------------------|-------------------------------------|
| | V _I | t _r , t _f | C _L | R_L | t _{PHL} , t _{PLH} | t _{PZH} , t _{PHZ} | t _{PZL} , t _{PLZ} |
| 74AHC126 | V _{CC} | ≤ 3.0 ns | 15 pF, 50 pF | 1 kΩ | open | GND | V _{CC} |
| 74AHCT126 | 3.0 V | ≤ 3.0 ns | 15 pF, 50 pF | 1 kΩ | open | GND | V _{CC} |

11. Package outline

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

SOT108-1



| UNIT | A max. | A ₁ | A ₂ | Α3 | bp | С | D ⁽¹⁾ | E ⁽¹⁾ | е | HE | L | Lp | Q | v | w | у | Z ⁽¹⁾ | θ |
|--------|-----------|----------------|----------------|------|--------------|------------------|------------------|------------------|------|----------------|-------|----------------|----------------|------|------|-------|------------------|----|
| mm | 1.75 | 0.25 0.10 | 1.45 1.25 | 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 | 0.010 0.004 | 0.057 0.049 | 0.01 | | 0.0100 0.0075 | 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° |

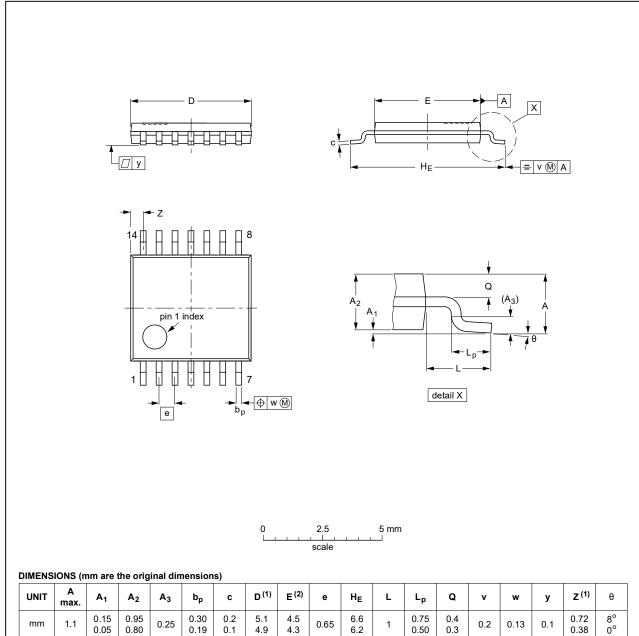
1. Plastic or metal protrusions of 0.15 mm (0.006 inch) maximum per side are not included.

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

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

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

SOT402-1



| UNIT | A max. | A ₁ | A ₂ | A ₃ | bp | С | D ⁽¹⁾ | E (2) | е | HE | L | Lp | Q | v | w | у | Z ⁽¹⁾ | θ |
|------|-----------|----------------|----------------|----------------|--------------|------------|------------------|------------|------|------------|---|--------------|------------|-----|------|-----|------------------|----------|
| mm | 1.1 | 0.15 0.05 | 0.95 0.80 | 0.25 | 0.30 0.19 | 0.2 0.1 | 5.1 4.9 | 4.5 4.3 | 0.65 | 6.6 6.2 | 1 | 0.75 0.50 | 0.4 0.3 | 0.2 | 0.13 | 0.1 | 0.72 0.38 | 8° 0° |

Notes

- 1. Plastic or metal protrusions of 0.15 mm maximum per side are not included.
- 2. Plastic interlead protrusions of 0.25 mm maximum per side are not included.

| OUTLINE | | REFER | EUROPEAN | ISSUE DATE | | |
|----------|-----|--------|----------|------------|------------|---------------------------------|
| VERSION | IEC | JEDEC | JEITA | | PROJECTION | ISSUE DATE |
| SOT402-1 | | MO-153 | | | | 99-12-27 03-02-18 |

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

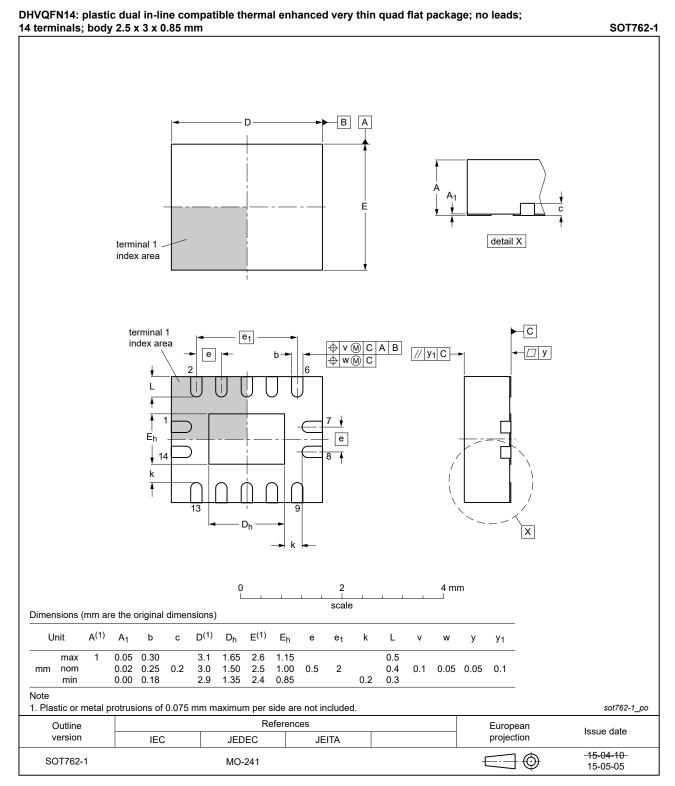


Fig. 9. Package outline SOT762-1 (DHVQFN14)

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 |

13. Revision history

Table 11. Revision history

| Document ID | Release date | Data sheet status | Change notice | Supersedes |
|-------------------|----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------|
| 74AHC_AHCT126 v.6 | 20230830 | Product data sheet | - | 74AHC_AHCT126 v.5 |
| Modifications: | Section 2: | ESD specification updated a | according to the la | atest JEDEC standard. |
| 74AHC_AHCT126 v.5 | 20200428 | Product data sheet | - | 74AHC_AHCT126 v.4 |
| Modifications: | guidelines (Legal texts Section 1: (Table 4: De Table 6: Co | of this data sheet has been of Nexperia. have been adapted to the updated. erating values for P _{tot} total penditions for I _{OZ} corrected. utline drawing of SOT762-1 | new company nar | ne where appropriate. |
| 74AHC_AHCT126 v.4 | 20090812 | Product data sheet | - | 74AHC_AHCT126 v.3 |
| Modifications: | Added type | numbers 74AHC126BQ ar | nd 74AHCT126BC | Q (DHVQFN14 package) |
| 74AHC_AHCT126 v.3 | 20080425 | Product data sheet | - | 74AHC_AHCT126 v.2 |
| 74AHC_AHCT126 v.2 | 19990929 | Product specification | - | 74AHC_AHCT126 v.1 |
| 74AHC_AHCT126 v.1 | 19990112 | Preliminary specification | - | - |

14. 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. |

- Please consult the most recently issued document before initiating or completing a design.
- [2] The term 'short data sheet' is explained in section "Definitions".
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