Triple inverter Rev. 13 — 2 November 2018

### 1. General description

The 74LVC3G04 provides three inverting buffers.

Inputs can be driven from either 3.3 V or 5 V devices. This feature allows the use of these devices as translators in a mixed 3.3 V and 5 V environment.

This device is fully specified for partial power-down applications using  $I_{OFF}$ . The  $I_{OFF}$  circuitry disables the output, preventing a damaging backflow current through the device when it is powered down.

### 2. Features and benefits

- Wide supply voltage range from 1.65 V to 5.5 V
- 5 V tolerant outputs for interfacing with 5 V logic
- High noise immunity
- Complies with JEDEC standard:
  - JESD8-7 (1.65 V to 1.95 V)
  - JESD8-5 (2.3 V to 2.7 V)
  - JESD8B/JESD36 (2.7 V to 3.6 V)
- ESD protection:
  - HBM JESD22-A114F exceeds 2 000 V
  - MM JESD22-A115-A exceeds 200 V
- $\pm 24$  mA output drive (V<sub>CC</sub> = 3.0 V)
- CMOS low power consumption
- Latch-up performance exceeds 250 mA
- Direct interface with TTL levels
- Multiple package options
- Specified from -40 °C to +85 °C and -40 °C to +125 °C

# nexperia

### 3. Ordering information

#### Table 1. Ordering information

| Type number | Package           | Package |  |          |  |  |  |  |
|-------------|-------------------|---------|--|----------|--|--|--|--|
|             | Temperature range | Name    | Description  | Version  |  |  |  |  |
| 74LVC3G04DP | -40 °C to +125 °C | TSSOP8  | plastic thin shrink small outline package; 8 leads;<br>body width 3 mm; lead length 0.5 mm     | SOT505-2 |  |  |  |  |
| 74LVC3G04DC | -40 °C to +125 °C | VSSOP8  | plastic very thin shrink small outline package;<br>8 leads; body width 2.3 mm                  | SOT765-1 |  |  |  |  |
| 74LVC3G04GT | -40 °C to +125 °C | XSON8   | plastic extremely thin small outline package;<br>no leads; 8 terminals; body 1 x 1.95 x 0.5 mm | SOT833-1 |  |  |  |  |
| 74LVC3G04GF | -40 °C to +125 °C | XSON8   | extremely thin small outline package; no leads;<br>8 terminals; body 1.35 x 1 x 0.5 mm         | SOT1089  |  |  |  |  |
| 74LVC3G04GM | -40 °C to +125 °C | XQFN8   | plastic, extremely thin quad flat package;<br>no leads; 8 terminals; body 1.6 x 1.6 x 0.5 mm   | SOT902-2 |  |  |  |  |
| 74LVC3G04GN | -40 °C to +125 °C | XSON8   | extremely thin small outline package; no leads;<br>8 terminals; body 1.2 x 1.0 x 0.35 mm       | SOT1116  |  |  |  |  |
| 74LVC3G04GS | -40 °C to +125 °C | XSON8   | extremely thin small outline package; no leads;<br>8 terminals; body 1.35 x 1.0 x 0.35 mm      | SOT1203  |  |  |  |  |

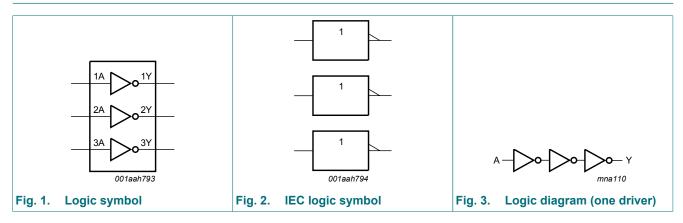
### 4. Marking

#### Table 2. Marking codes

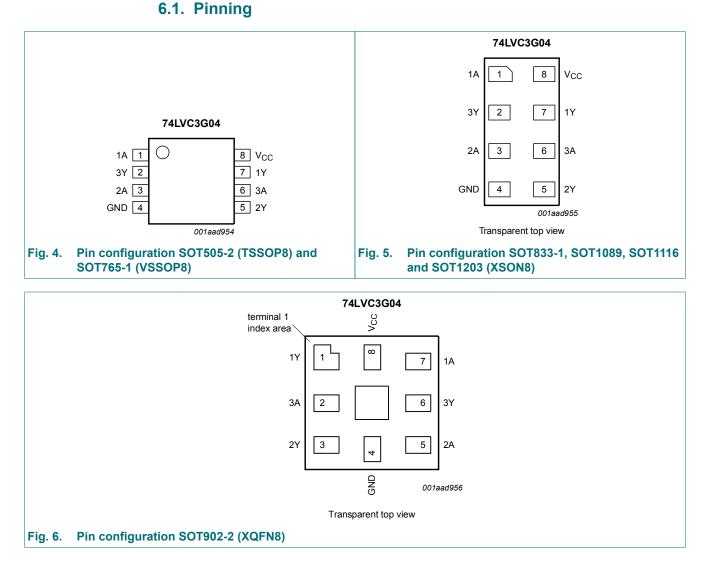
| Type number | Marking code[1] |  |
|-------------|-----------------|--|
| 74LVC3G04DP | V04             |  |
| 74LVC3G04DC | V04             |  |
| 74LVC3G04GT | V04             |  |
| 74LVC3G04GF | V4              |  |
| 74LVC3G04GM | V04             |  |
| 74LVC3G04GN | V4              |  |
| 74LVC3G04GS | V4              |  |
|             |                 |  |

[1] The pin 1 indicator is located on the lower left corner of the device, below the marking code.

### 5. Functional diagram



# 6. Pinning information



### 6.2. Pin description

#### Table 3. Pin description

| Symbol          | Pin   |          | Description    |
|-----------------|---|----------|----------------|
|                 | SOT505-2, SOT765-1, SOT833-1,<br>SOT1089, SOT1116 and SOT1203 | SOT902-2 |                |
| 1A, 2A, 3A      | 1, 3, 6   | 7, 5, 2  | data input     |
| GND             | 4   | 4        | ground (0 V)   |
| 1Y, 2Y, 3Y      | 7, 5, 2   | 1, 3, 6  | data output    |
| V <sub>CC</sub> | 8   | 8        | supply voltage |

#### 74LVC3G04

### 7. Functional description

#### Table 4. Function table

H = HIGH voltage level; L = LOW voltage level

| Input nA | Output nY |
|----------|-----------|
| L        | Н         |
| Н        | L         |

# 8. Limiting values

#### Table 5. Limiting values

In accordance with the Absolute Maximum Rating System (IEC 60134). Voltages are referenced to GND (ground = 0 V).

| Symbol           | Parameter               | Conditions                                      |        | Min  | Max                   | Unit |
|------------------|-------------------------|---|--------|------|-----------------------|------|
| V <sub>CC</sub>  | supply voltage          |   |        | -0.5 | +6.5                  | V    |
| I <sub>IK</sub>  | input clamping current  | V <sub>1</sub> < 0 V                            |        | -50  | -                     | mA   |
| VI               | input voltage           |   | [1]    | -0.5 | +6.5                  | V    |
| I <sub>OK</sub>  | output clamping current | $V_{\rm O}$ > $V_{\rm CC}$ or $V_{\rm O}$ < 0 V |        | -    | ±50                   | mA   |
| Vo               | output voltage          | Active mode                                     | [1]    | -0.5 | V <sub>CC</sub> + 0.5 | V    |
|                  |                         | Power-down mode                                 | [1][2] | -0.5 | +6.5                  | V    |
| lo               | output current          | $V_{O} = 0 V \text{ to } V_{CC}$                |        | -    | ±50                   | mA   |
| I <sub>CC</sub>  | supply current          |   |        | -    | 100                   | mA   |
| I <sub>GND</sub> | ground current          |   |        | -100 | -                     | mA   |
| P <sub>tot</sub> | total power dissipation | T <sub>amb</sub> = -40 °C to +125 °C            | [3]    | -    | 250                   | mW   |
| T <sub>stg</sub> | storage temperature     |   |        | -65  | +150                  | °C   |

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

[2] When V<sub>CC</sub> = 0 V (Power-down mode), the output voltage can be 5.5 V in normal operation.

[3] For TSSOP8 package: above 55 °C the value of Ptot derates linearly with 2.5 mW/K.

For VSSOP8 package: above 110 °C the value of P<sub>tot</sub> derates linearly with 8 mW/K.

For XSON8 and XQFN8 packages: above 118 °C the value of Ptot derates linearly with 7.8 mW/K.

### 9. Recommended operating conditions

#### Table 6. Operating conditions

| Symbol           | Parameter                           | Conditions                      | Min  | Max             | Unit |
|------------------|-------------------------------------|---------------------------------|------|-----------------|------|
| V <sub>CC</sub>  | supply voltage                      |                                 | 1.65 | 5.5             | V    |
| VI               | input voltage                       |                                 | 0    | 5.5             | V    |
| Vo               | output voltage                      | Active mode                     | 0    | V <sub>CC</sub> | V    |
|                  |                                     | Power-down mode; $V_{CC}$ = 0 V | 0    | 5.5             | V    |
| T <sub>amb</sub> | ambient temperature                 |                                 | -40  | +125            | °C   |
| Δt/ΔV            | input transition rise and fall rate | $V_{CC}$ = 1.65 V to 2.7 V      | -    | 20              | ns/V |
|                  |                                     | $V_{CC}$ = 2.7 V to 5.5 V       | -    | 10              | ns/V |

### **10. Static characteristics**

#### Table 7. Static characteristics

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

| Symbol               | Parameter                 | Conditions  | Min                    | Typ[1] | Мах                    | Unit |
|----------------------|---------------------------|---|------------------------|--------|------------------------|------|
| T <sub>amb</sub> = - | 40 °C to +85 °C           |   |                        |        |                        |      |
| V <sub>IH</sub>      | HIGH-level input voltage  | V <sub>CC</sub> = 1.65 V to 1.95 V  | 0.65 × V <sub>CC</sub> | -      | -                      | V    |
|                      |                           | V <sub>CC</sub> = 2.3 V to 2.7 V  | 1.7                    | -      | -                      | V    |
|                      |                           | V <sub>CC</sub> = 2.7 V to 3.6 V  | 2.0                    | -      | -                      | V    |
|                      |                           | V <sub>CC</sub> = 4.5 V to 5.5 V  | $0.7 \times V_{CC}$    | -      | -                      | V    |
| V <sub>IL</sub>      | LOW-level input voltage   | V <sub>CC</sub> = 1.65 V to 1.95 V  | -                      | -      | $0.35 \times V_{CC}$   | V    |
|                      |                           | V <sub>CC</sub> = 2.3 V to 2.7 V  | -                      | -      | 0.7                    | V    |
|                      |                           | V <sub>CC</sub> = 2.7 V to 3.6 V  | -                      | -      | 0.8                    | V    |
|                      |                           | V <sub>CC</sub> = 4.5 V to 5.5 V  | -                      | -      | 0.3 × V <sub>CC</sub>  | V    |
| V <sub>OH</sub>      | HIGH-level output voltage | V <sub>I</sub> = V <sub>IH</sub> or V <sub>IL</sub>   |                        |        |                        |      |
|                      |                           | $I_{O}$ = -100 µA; $V_{CC}$ = 1.65 V to 5.5 V   | V <sub>CC</sub> - 0.1  | -      | -                      | V    |
|                      |                           | I <sub>O</sub> = -4 mA; V <sub>CC</sub> = 1.65 V  | 1.2                    | -      | -                      | V    |
|                      |                           | I <sub>O</sub> = -8 mA; V <sub>CC</sub> = 2.3 V   | 1.9                    | -      | -                      | V    |
|                      |                           | I <sub>O</sub> = -12 mA; V <sub>CC</sub> = 2.7 V  | 2.2                    | -      | -                      | V    |
|                      |                           | I <sub>O</sub> = -24 mA; V <sub>CC</sub> = 3.0 V  | 2.3                    | -      | -                      | V    |
|                      |                           | I <sub>O</sub> = -32 mA; V <sub>CC</sub> = 4.5 V  | 3.8                    | -      | -                      | V    |
| V <sub>OL</sub>      | LOW-level output voltage  | $V_{I} = V_{IH} \text{ or } V_{IL}$   |                        |        |                        |      |
|                      |                           | $I_{O}$ = 100 µA; $V_{CC}$ = 1.65 V to 5.5 V  | -                      | -      | 0.10                   | V    |
|                      |                           | I <sub>O</sub> = 4 mA; V <sub>CC</sub> = 1.65 V   | -                      | -      | 0.45                   | V    |
|                      |                           | I <sub>O</sub> = 8 mA; V <sub>CC</sub> = 2.3 V  | -                      | -      | 0.30                   | V    |
|                      |                           | I <sub>O</sub> = 12 mA; V <sub>CC</sub> = 2.7 V   | -                      | -      | 0.40                   | V    |
|                      |                           | I <sub>O</sub> = 24 mA; V <sub>CC</sub> = 3.0 V   | -                      | -      | 0.55                   | V    |
|                      |                           | I <sub>O</sub> = 32 mA; V <sub>CC</sub> = 4.5 V   | -                      | -      | 0.55                   | V    |
| lı                   | input leakage current     | V <sub>1</sub> = 5.5 V or GND; V <sub>CC</sub> = 0 V to 5.5 V   | -                      | ±0.1   | ±1                     | μA   |
| I <sub>OFF</sub>     | power-off leakage current | $V_{CC} = 0 V; V_1 \text{ or } V_0 = 5.5 V$   | -                      | ±0.1   | ±2                     | μA   |
| I <sub>CC</sub>      | supply current            | $V_{I}$ = 5.5 V or GND; $V_{CC}$ = 1.65 V to 5.5 V;<br>$I_{O}$ = 0 A                                  | -                      | 0.1    | 4                      | μA   |
| ΔI <sub>CC</sub>     | additional supply current | per pin; $V_{CC}$ = 2.3 V to 5.5 V;<br>V <sub>I</sub> = V <sub>CC</sub> - 0.6 V; I <sub>O</sub> = 0 A | -                      | 5      | 500                    | μA   |
| CI                   | input capacitance         | $V_{CC}$ = 3.3 V; $V_{I}$ = GND to $V_{CC}$   | -                      | 2.5    | -                      | pF   |
| T <sub>amb</sub> = - | 40 °C to +125 °C          | 1   |                        |        |                        | -    |
| V <sub>IH</sub>      | HIGH-level input voltage  | V <sub>CC</sub> = 1.65 V to 1.95 V  | 0.65 × V <sub>CC</sub> | -      | -                      | V    |
|                      |                           | V <sub>CC</sub> = 2.3 V to 2.7 V  | 1.7                    | -      | -                      | V    |
|                      |                           | V <sub>CC</sub> = 2.7 V to 3.6 V  | 2.0                    | -      | -                      | V    |
|                      |                           | V <sub>CC</sub> = 4.5 V to 5.5 V  | $0.7 \times V_{CC}$    | -      | -                      | V    |
| V <sub>IL</sub>      | LOW-level input voltage   | V <sub>CC</sub> = 1.65 V to 1.95 V  | -                      | -      | 0.35 × V <sub>CC</sub> | V    |
|                      |                           | V <sub>CC</sub> = 2.3 V to 2.7 V  | -                      | -      | 0.7                    | V    |
|                      |                           | V <sub>CC</sub> = 2.7 V to 3.6 V  | -                      | -      | 0.8                    | V    |
|                      |                           | V <sub>CC</sub> = 4.5 V to 5.5 V  | _                      | -      | 0.3 × V <sub>CC</sub>  | V    |

#### **Triple inverter**

| Symbol           | Parameter                 | Conditions  | Min                   | Typ[1] | Мах  | Unit |
|------------------|---------------------------|---|-----------------------|--------|------|------|
| V <sub>OH</sub>  | HIGH-level output voltage | V <sub>I</sub> = V <sub>IH</sub> or V <sub>IL</sub>   |                       |        |      |      |
|                  |                           | $I_{O}$ = -100 µA; $V_{CC}$ = 1.65 V to 5.5 V   | V <sub>CC</sub> - 0.1 | -      | -    | V    |
|                  |                           | I <sub>O</sub> = -4 mA; V <sub>CC</sub> = 1.65 V  | 0.95                  | -      | -    | V    |
|                  |                           | I <sub>O</sub> = -8 mA; V <sub>CC</sub> = 2.3 V   | 1.7                   | -      | -    | V    |
|                  |                           | I <sub>O</sub> = -12 mA; V <sub>CC</sub> = 2.7 V  | 1.9                   | -      | -    | V    |
|                  |                           | I <sub>O</sub> = -24 mA; V <sub>CC</sub> = 3.0 V  | 2.0                   | -      | -    | V    |
|                  |                           | I <sub>O</sub> = -32 mA; V <sub>CC</sub> = 4.5 V  | 3.4                   | -      | -    | V    |
| V <sub>OL</sub>  | LOW-level output voltage  | V <sub>I</sub> = V <sub>IH</sub> or V <sub>IL</sub>   |                       |        |      |      |
|                  |                           | $I_{O}$ = 100 µA; $V_{CC}$ = 1.65 V to 5.5 V  | -                     | -      | 0.10 | V    |
|                  |                           | I <sub>O</sub> = 4 mA; V <sub>CC</sub> = 1.65 V   | -                     | -      | 0.70 | V    |
|                  |                           | I <sub>O</sub> = 8 mA; V <sub>CC</sub> = 2.3 V  | -                     | -      | 0.45 | V    |
|                  |                           | I <sub>O</sub> = 12 mA; V <sub>CC</sub> = 2.7 V   | -                     | -      | 0.60 | V    |
|                  |                           | I <sub>O</sub> = 24 mA; V <sub>CC</sub> = 3.0 V   | -                     | -      | 0.80 | V    |
|                  |                           | I <sub>O</sub> = 32 mA; V <sub>CC</sub> = 4.5 V   | -                     | -      | 0.80 | V    |
| l <sub>l</sub>   | input leakage current     | $V_{I}$ = 5.5 V or GND; $V_{CC}$ = 0 V to 5.5 V   | -                     | -      | ±1   | μA   |
| I <sub>OFF</sub> | power-off leakage current | $V_{CC}$ = 0 V; V <sub>1</sub> or V <sub>0</sub> = 5.5 V  | -                     | -      | ±2   | μA   |
| I <sub>CC</sub>  | supply current            | $V_{I}$ = 5.5 V or GND; $V_{CC}$ = 1.65 V to 5.5 V;<br>$I_{O}$ = 0 A                                  | -                     | -      | 4    | μA   |
| ΔI <sub>CC</sub> | additional supply current | per pin; $V_{CC}$ = 2.3 V to 5.5 V;<br>V <sub>I</sub> = V <sub>CC</sub> - 0.6 V; I <sub>O</sub> = 0 A | -                     | -      | 500  | μA   |

[1] All typical values are measured at V<sub>CC</sub> = 3.3 V and T<sub>amb</sub> = 25 °C.

### **11. Dynamic characteristics**

#### **Table 8. 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 | Тур [1]   | Max | Min               | Max | -    |
| t <sub>pd</sub> | propagation delay             | nA to nY; see Fig. 7 [2]                                     |     |           |     |                   |     |      |
|                 |                               | V <sub>CC</sub> = 1.65 V to 1.95 V                           | 1.0 | 3.5       | 8.0 | 1.0               | 9.5 | ns   |
|                 |                               | V <sub>CC</sub> = 2.3 V to 2.7 V                             | 0.5 | 2.2       | 4.4 | 0.5               | 5.4 | ns   |
|                 |                               | V <sub>CC</sub> = 2.7 V                                      | 0.5 | 2.7       | 5.2 | 0.5               | 7.0 | ns   |
|                 |                               | V <sub>CC</sub> = 3.0 V to 3.6 V                             | 0.5 | 2.7       | 4.1 | 0.5               | 5.5 | ns   |
|                 |                               | V <sub>CC</sub> = 4.5 V to 5.5 V                             | 0.5 | 1.9       | 3.2 | 0.5               | 3.8 | ns   |
| C <sub>PD</sub> | power dissipation capacitance | $V_{I} = GND \text{ to } V_{CC}; V_{CC} = 3.3 \text{ V}$ [3] | -   | 13.5      | -   | -                 | -   | pF   |

[1] Typical values are measured at  $T_{amb}$  = 25 °C and  $V_{CC}$  = 1.8 V, 2.5 V, 2.7 V, 3.3 V and 5.0 V respectively.

[2]

 $t_{pd}$  is the same as  $t_{PLH}$  and  $t_{PHL}$ . C<sub>PD</sub> is used to determine the dynamic power dissipation (P<sub>D</sub> in µW). [3]

 $P_{D} = C_{PD} \times V_{CC}^{2} \times f_{i} \times N + \Sigma (C_{L} \times V_{CC}^{2} \times f_{o}) \text{ where:}$ 

 $f_i$  = input frequency in MHz;

 $f_o$  = output frequency in MHz;

C<sub>L</sub> = output load capacitance in pF;

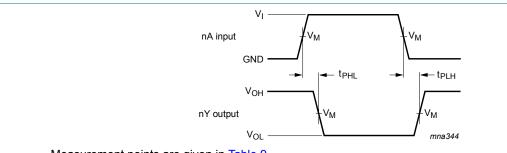
V<sub>CC</sub> = supply voltage in V;

N = number of inputs switching;

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

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#### 11.1. Waveform and test circuit



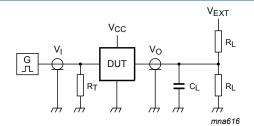
Measurement points are given in Table 9.

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

#### Fig. 7. The input (nA) to output (nY) propagation delays

#### Table 9. Measurement points

| Supply voltage   | Input                 | Output                |  |
|------------------|-----------------------|-----------------------|--|
| V <sub>cc</sub>  | V <sub>M</sub>        | V <sub>M</sub>        |  |
| 1.65 V to 1.95 V | 0.5 x V <sub>CC</sub> | 0.5 x V <sub>CC</sub> |  |
| 2.3 V to 2.7 V   | 0.5 x V <sub>CC</sub> | 0.5 x V <sub>CC</sub> |  |
| 2.7 V            | 1.5 V                 | 1.5 V                 |  |
| 3.0 V to 3.6 V   | 1.5 V                 | 1.5 V                 |  |
| 4.5 V to 5.5 V   | 0.5 x V <sub>CC</sub> | 0.5 x V <sub>CC</sub> |  |



Test data is given in Table 10.

Definitions for test circuit:

R<sub>L</sub> = Load resistance.

C<sub>L</sub> = Load capacitance including jig and probe capacitance.

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

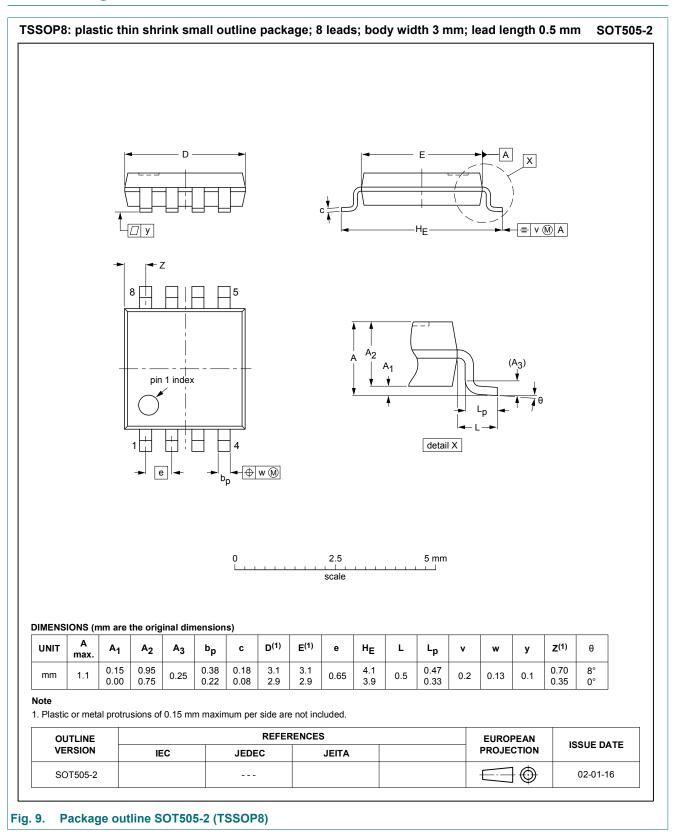
 $V_{EXT}$  = External voltage for measuring switching times.

#### Fig. 8. Test circuit for measuring switching times

| Supply voltage   | Input           |                                 | Load  | Load  |                                     |
|------------------|-----------------|---------------------------------|-------|-------|-------------------------------------|
| V <sub>cc</sub>  | VI              | t <sub>r</sub> = t <sub>f</sub> | CL    | RL    | t <sub>PLH</sub> , t <sub>PHL</sub> |
| 1.65 V to 1.95 V | V <sub>CC</sub> | ≤ 2.0 ns                        | 30 pF | 1 kΩ  | open                                |
| 2.3 V to 2.7 V   | V <sub>CC</sub> | ≤ 2.0 ns                        | 30 pF | 500 Ω | open                                |
| 2.7 V            | 2.7 V           | ≤ 2.5 ns                        | 50 pF | 500 Ω | open                                |
| 3.0 V to 3.6 V   | 2.7 V           | ≤ 2.5 ns                        | 50 pF | 500 Ω | open                                |
| 4.5 V to 5.5 V   | V <sub>CC</sub> | ≤ 2.5 ns                        | 50 pF | 500 Ω | open                                |

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### 12. Package outline



#### **Triple inverter**

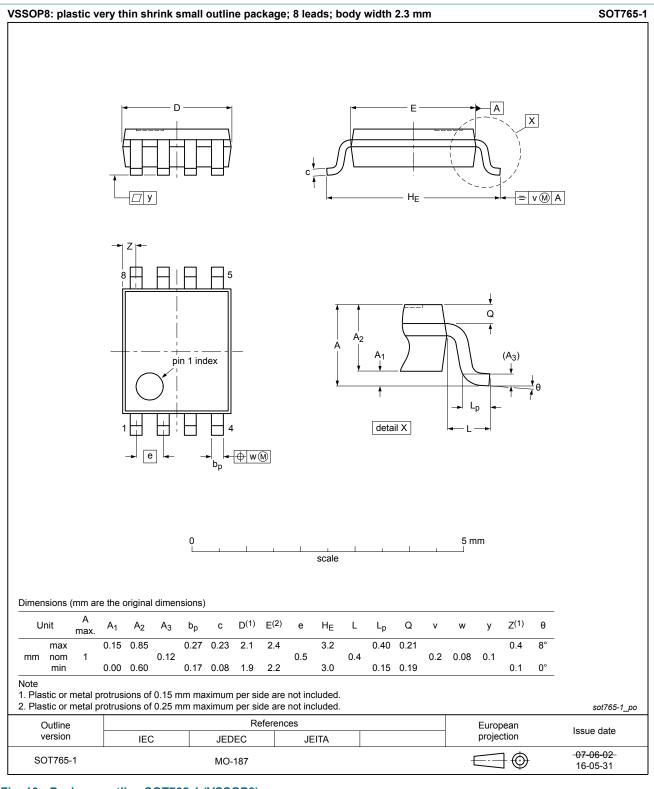
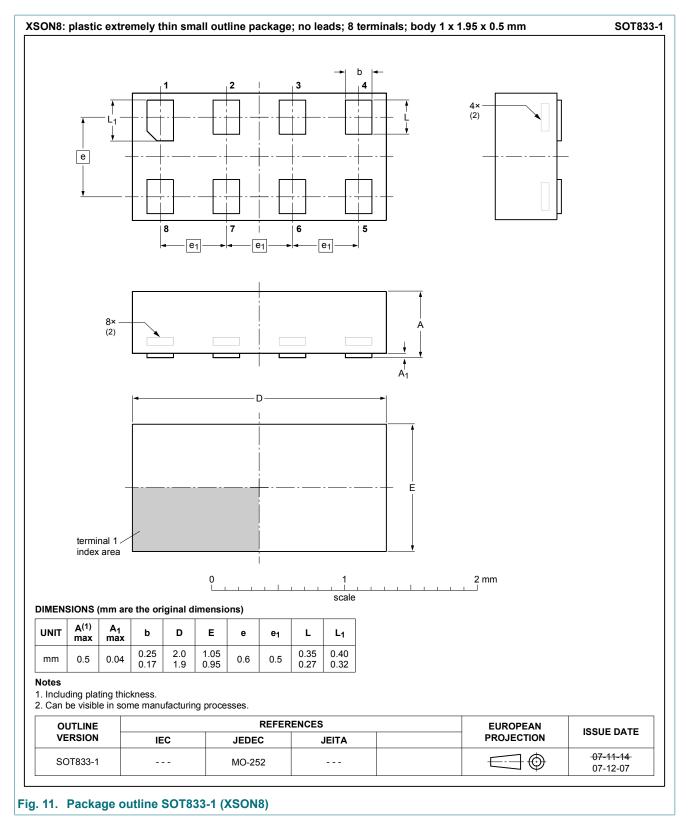
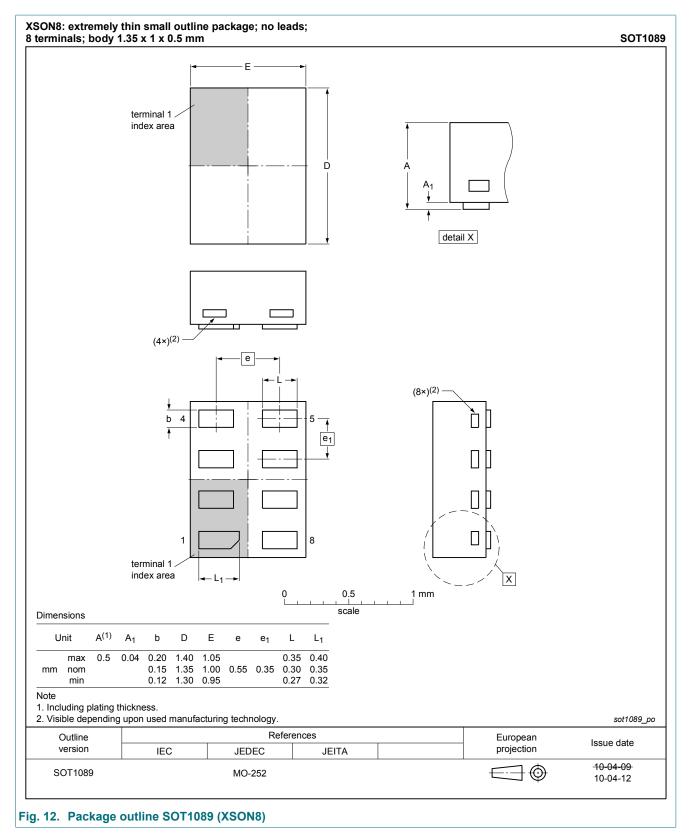


Fig. 10. Package outline SOT765-1 (VSSOP8)

#### **Triple inverter**



#### **Triple inverter**



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#### **Triple inverter**

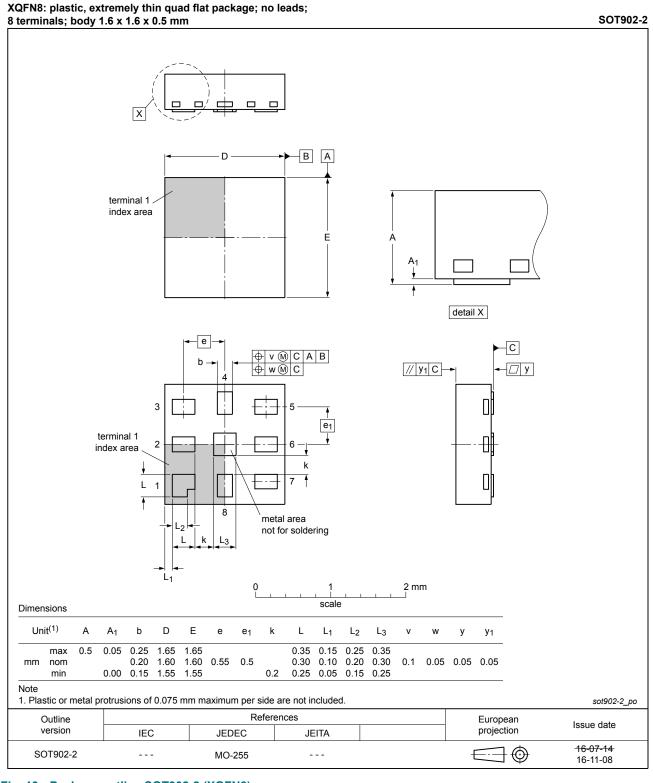
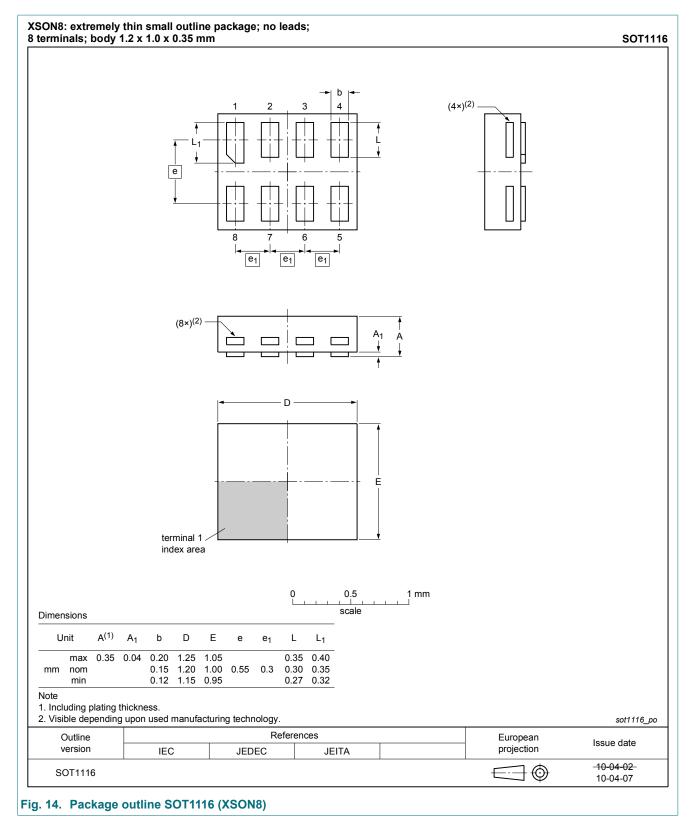
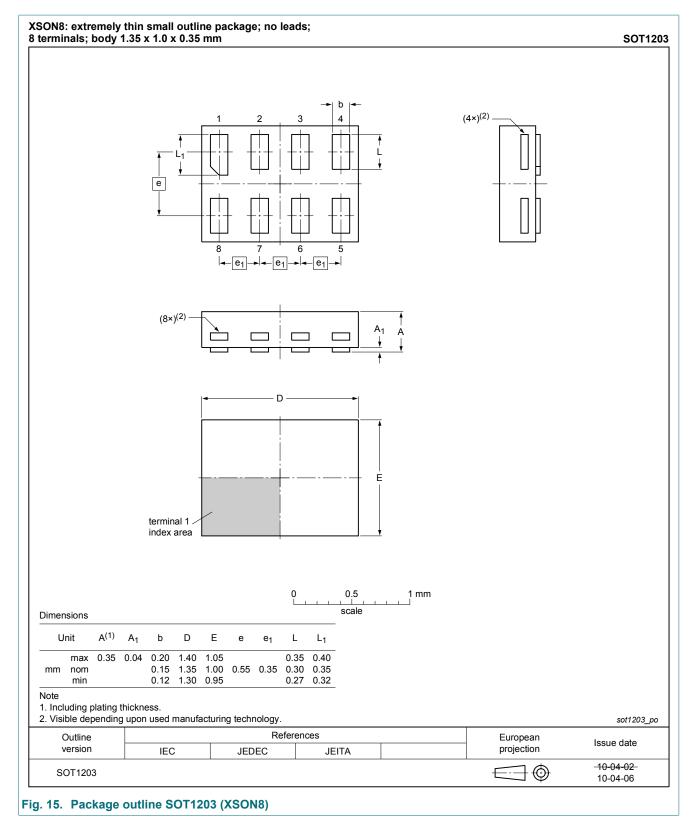


Fig. 13. Package outline SOT902-2 (XQFN8)

#### **Triple inverter**



#### **Triple inverter**



74LVC3G04

### 13. Abbreviations

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

# 14. Revision history

| Document ID    | Release date  | Data sheet status  | Change notice | Supersedes     |  |
|----------------|---|--------------------|---------------|----------------|--|
| 74LVC3G04 v.13 | 20181102  | Product data sheet | -             | 74LVC3G04 v.12 |  |
| Modifications: | <ul> <li>The format of this data sheet has been redesigned to comply with the identity guidelines of Nexperia.</li> <li>Legal texts have been adapted to the new company name where appropriate.</li> <li>Type numbers 74LVC3G04GD (SOT996-2/XSON8) removed.</li> </ul> |                    |               |                |  |
| 74LVC3G04 v.12 | 20161215  | Product data sheet | -             | 74LVC3G04 v.11 |  |
| Modifications: | • <u>Table 7</u> : The maximum limits for leakage current and supply current have changed.  |                    |               |                |  |
| 74LVC3G04 v.11 | 20130402  | Product data sheet | -             | 74LVC3G04 v.10 |  |
| Modifications: | For type number 74LVC3G04GD XSON8U has changed to XSON8.  |                    |               |                |  |
| 74LVC3G04 v.10 | 20120614  | Product data sheet | -             | 74LVC3G04 v.9  |  |
| Modifications: | For type number 74LVC3G04GM the SOT code has changed to SOT902-2.   |                    |               |                |  |
| 74LVC3G04 v.9  | 20111123  | Product data sheet | -             | 74LVC3G04 v.8  |  |
| Modifications: | Legal pages updated.  |                    |               |                |  |
| 74LVC3G04 v.8  | 20101110  | Product data sheet | -             | 74LVC3G04 v.7  |  |
| 74LVC3G04 v.7  | 20080616  | Product data sheet | -             | 74LVC3G04 v.6  |  |
| 74LVC3G04 v.6  | 20080303  | Product data sheet | -             | 74LVC3G04 v.5  |  |
| 74LVC3G04 v.5  | 20071005  | Product data sheet | -             | 74LVC3G04 v.4  |  |
| 74LVC3G04 v.4  | 20070320  | Product data sheet | -             | 74LVC3G04 v.3  |  |
| 74LVC3G04 v.3  | 20050201  | Product data sheet | -             | 74LVC3G04 v.2  |  |
| 74LVC3G04 v.2  | 20041018  | Product data sheet | -             | 74LVC3G04 v.1  |  |
| 74LVC3G04 v.1  | 20040504  | Product data sheet | -             | -              |  |

#### **Triple inverter**

### 15. Legal information

#### Data sheet status

| Document status<br>[1][2]         | Product<br>status [3] | Definition  |
|-----------------------------------|-----------------------|---|
| Objective [short]<br>data sheet   | Development           | This document contains data from<br>the objective specification for<br>product development. |
| Preliminary [short]<br>data sheet | Qualification         | This document contains data from the preliminary specification.                             |
| Product [short]<br>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".

[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 <u>https://www.nexperia.com</u>.

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**Product data sheet** 

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