# 74LVC3G07-Q100

## Triple buffer with open-drain output

Rev. 4 — 24 August 2023

**Product data sheet** 

### 1. General description

The 74LVC3G07-Q100 provides three non-inverting buffers.

The output of the device is an open-drain and can be connected to other open-drain outputs to implement active-LOW wired-OR or active-HIGH wired-AND functions.

Input can be driven from either 3.3 V or 5 V devices. This feature allows the use of this device in a mixed 3.3 V and 5 V environment.

Schmitt trigger action at all inputs makes the circuit tolerant for slower input rise and fall time.

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

This product has been qualified to the Automotive Electronics Council (AEC) standard Q100 (Grade 1) and is suitable for use in automotive applications.

#### 2. Features and benefits

- Automotive product qualification in accordance with AEC-Q100 (Grade 1)
  - Specified from -40 °C to +85 °C and from -40 °C to +125 °C
- Wide supply voltage range from 1.65 V to 5.5 V
- 5 V tolerant input/output 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)
  - JESD8-B/JESD36 (2.7 V to 3.6 V).
- -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
- Inputs accept voltages up to 5 V
- ESD protection:
  - HBM: ANSI/ESDA/JEDEC JS-001 class 2 exceeds 2000 V
  - CDM: ANSI/ESDA/JEDEC JS-002 class C3 exceeds 1000 V

## 3. Ordering information

**Table 1. Ordering information** 

| Type number      | Package                            | ackage |   |          |  |  |  |
|------------------|------------------------------------|--------|---|----------|--|--|--|
|                  | Temperature range Name Description |        |   |          |  |  |  |
| 74LVC3G07DP-Q100 | -40 °C to +125 °C                  | TSSOP8 | plastic thin shrink small outline package; 8 leads; body width 3 mm; lead length 0.5 mm | SOT505-2 |  |  |  |
| 74LVC3G07DC-Q100 | -40 °C to +125 °C                  | VSSOP8 | plastic very thin shrink small outline package;<br>8 leads; body width 2.3 mm           | SOT765-1 |  |  |  |



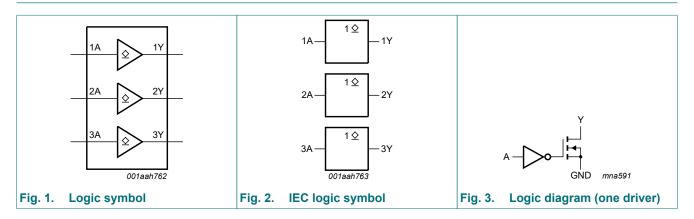
## 4. Marking

#### Table 2. Marking codes

| Type number      | Marking code [1] |
|------------------|------------------|
| 74LVC3G07DP-Q100 | V07              |
| 74LVC3G07DC-Q100 | V07              |

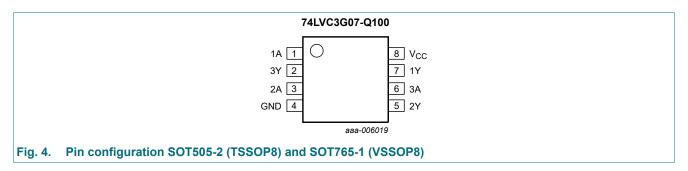
[1] The pin 1 indicator is located on the lower left corner of the device, below the marking code.

## 5. Functional diagram



### 6. Pinning information

#### 6.1. Pinning



### 6.2. Pin description

Table 3. Pin description

| Symbol          | Pin     | Description    |
|-----------------|---------|----------------|
| 1A, 2A, 3A      | 1, 3, 6 | data input     |
| GND             | 4       | ground (0 V)   |
| 1Y, 2Y, 3Y      | 7, 5, 2 | data output    |
| V <sub>CC</sub> | 8       | supply voltage |

## 7. Functional description

#### **Table 4. Function table**

H = HIGH voltage level; L = LOW voltage level; Z = high-impedance OFF-state.

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

## 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>I</sub> < 0 V   | -50  | -    | mA   |
| VI               | input voltage           | [1]  | -0.5 | +6.5 | V    |
| I <sub>OK</sub>  | output clamping current | V <sub>O</sub> < 0 V   | -50  | -    | mA   |
| Vo               | output voltage          | Active mode [1]  | -0.5 | +6.5 | V    |
|                  |                         | Power-down mode; V <sub>CC</sub> = 0 V [1]                       | -0.5 | +6.5 | V    |
| Io               | output current          | V <sub>O</sub> = 0 V to 6.5 V                                    | -    | 50   | mA   |
| I <sub>CC</sub>  | supply current          |  | -    | 100  | mA   |
| I <sub>GND</sub> | ground current          |  | -100 | -    | mA   |
| T <sub>stg</sub> | storage temperature     |  | -65  | +150 | °C   |
| P <sub>tot</sub> | total power dissipation | $T_{amb} = -40  ^{\circ}\text{C to } +125  ^{\circ}\text{C}$ [2] | -    | 250  | mW   |

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

## 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    | 5.5  | V    |
|                  |                                     | Power-down mode; V <sub>CC</sub> = 0 V | 0    | 5.5  | V    |
| T <sub>amb</sub> | ambient temperature                 |  | -40  | +125 | °C   |
| Δt/ΔV            | input transition rise and fall rate | V <sub>CC</sub> = 1.65 V to 2.7 V      | -    | 20   | ns/V |
|                  |                                     | V <sub>CC</sub> = 2.7 V to 5.5 V       | -    | 10   | ns/V |

<sup>[2]</sup> For SOT505-2 (TSSOP8) package: P<sub>tot</sub> derates linearly with 4.6 mW/K above 96 °C. For SOT765-1 (VSSOP8) package: P<sub>tot</sub> derates linearly with 4.9 mW/K above 99 °C.

### 10. Static characteristics

#### **Table 7. Static characteristics**

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

| Symbol                           | Parameter                 | Conditions   | T <sub>amb</sub> =  | -40 °C to | +85 °C              | T <sub>amb</sub> = -40 °C to +125 °C |                     | Unit |
|----------------------------------|---------------------------|--|---------------------|-----------|---------------------|--------------------------------------|---------------------|------|
|                                  |                           |  | Min                 | Typ [1]   | Max                 | Min                                  | Max                 |      |
| V <sub>IH</sub>                  | HIGH-level input          | V <sub>CC</sub> = 1.65 V to 1.95 V   | 0.65V <sub>CC</sub> | -         | -                   | 0.65V <sub>CC</sub>                  | -                   | V    |
|                                  | voltage                   | 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>CC</sub> = 4.5 V to 5.5 V   | 0.7V <sub>CC</sub>  | -         | -                   | 0.7V <sub>CC</sub>                   | -                   | V    |
| V <sub>IL</sub>                  | LOW-level input           | V <sub>CC</sub> = 1.65 V to 1.95 V   | -                   | -         | 0.35V <sub>CC</sub> | -                                    | 0.35V <sub>CC</sub> | V    |
|                                  | voltage                   | 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>CC</sub> = 4.5 V to 5.5 V   | -                   | -         | 0.3V <sub>CC</sub>  | -                                    | 0.3V <sub>CC</sub>  | V    |
| V <sub>OL</sub> LOW-level output |                           | $V_I = V_{IH}$ or $V_{IL}$   |                     |           |                     |                                      |                     |      |
|                                  | voltage                   | I <sub>O</sub> = 100 μA;<br>V <sub>CC</sub> = 1.65 V to 5.5 V  | -                   | -         | 0.1                 | -                                    | 0.1                 | V    |
|                                  |                           | I <sub>O</sub> = 4 mA; V <sub>CC</sub> = 1.65 V  | -                   | -         | 0.45                | -                                    | 0.70                | V    |
|                                  |                           | I <sub>O</sub> = 8 mA; V <sub>CC</sub> = 2.3 V   | -                   | -         | 0.3                 | -                                    | 0.45                | V    |
|                                  |                           | I <sub>O</sub> = 12 mA; V <sub>CC</sub> = 2.7 V  | -                   | -         | 0.4                 | -                                    | 0.60                | V    |
|                                  |                           | I <sub>O</sub> = 24 mA; V <sub>CC</sub> = 3.0 V  | -                   | -         | 0.55                | -                                    | 0.80                | V    |
|                                  |                           | I <sub>O</sub> = 32 mA; V <sub>CC</sub> = 4.5 V  | -                   | -         | 0.55                | -                                    | 0.80                | V    |
| lı                               | input leakage<br>current  | V <sub>I</sub> = 5.5 V or GND;<br>V <sub>CC</sub> = 0 V to 5.5 V   | -                   | ±0.1      | ±1                  | -                                    | ±1                  | μA   |
| I <sub>OZ</sub>                  | OFF-state output current  | $V_I = V_{IH}$ or $V_{IL}$ ;<br>$V_O = V_{CC}$ or GND;<br>$V_{CC} = 5.5 \text{ V}$                           | -                   | ±0.1      | ±2                  | -                                    | ±2                  | μΑ   |
| I <sub>OFF</sub>                 | power-off leakage current | $V_1 \text{ or } V_0 = 5.5 \text{ V}; V_{CC} = 0 \text{ V}$  | -                   | ±0.1      | ±2                  | -                                    | ±2                  | μΑ   |
| I <sub>CC</sub>                  | supply current            | V <sub>I</sub> = 5.5 V or GND; I <sub>O</sub> = 0 A;<br>V <sub>CC</sub> = 1.65 V to 5.5 V                    | -                   | 0.1       | 4                   | -                                    | 4                   | μΑ   |
| ΔI <sub>CC</sub>                 | additional supply current | per pin; V <sub>CC</sub> = 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                 | -                                    | 500                 | μΑ   |
| Cı                               | input capacitance         |  | -                   | 2.5       | -                   | -                                    | -                   | pF   |

<sup>[1]</sup> All typical values are measured at  $V_{CC}$  = 3.3 V and at  $T_{amb}$  = 25 °C.

## 11. Dynamic characteristics

#### **Table 8. Dynamic characteristics**

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

| Symbol                      | Parameter                           | Conditions   | T <sub>amb</sub> = -40 °C to +85 °C |         |     | T <sub>amb</sub> = -40 °C to +125 °C |     | Unit |
|-----------------------------|-------------------------------------|--|-------------------------------------|---------|-----|--------------------------------------|-----|------|
|                             |                                     |  | Min                                 | Typ [1] | Max | Min                                  | Max |      |
| t <sub>pd</sub> propagation |                                     | nA to nY; see Fig. 5 [2]                                   |                                     |         |     |                                      |     |      |
|                             | delay                               | V <sub>CC</sub> = 1.65 V to 1.95 V                         | 1.0                                 | 2.9     | 6.7 | 1.0                                  | 8.4 | ns   |
|                             |                                     | V <sub>CC</sub> = 2.3 V to 2.7 V                           | 0.5                                 | 1.7     | 4.3 | 0.5                                  | 5.5 | ns   |
|                             |                                     | V <sub>CC</sub> = 2.7 V                                    | 1.0                                 | 2.3     | 4.2 | 1.0                                  | 5.3 | ns   |
|                             |                                     | V <sub>CC</sub> = 3.0 V to 3.6 V                           | 0.5                                 | 2.1     | 3.7 | 0.5                                  | 4.7 | ns   |
|                             |                                     | V <sub>CC</sub> = 4.5 V to 5.5 V                           | 0.5                                 | 1.5     | 2.9 | 0.5                                  | 3.7 | ns   |
| C <sub>PD</sub>             | power<br>dissipation<br>capacitance | $V_1 = GND \text{ to } V_{CC}; V_{CC} = 3.3 \text{ V}$ [3] | -                                   | 6.5     | -   | -                                    | -   | 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  $t_{PLZ}$  and  $t_{PZL}$ .

[3]  $C_{PD}$  is used to determine the dynamic power dissipation ( $P_D$  in  $\mu$ 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<sub>i</sub> = input frequency in MHz;

f<sub>o</sub> = output frequency in MHz;

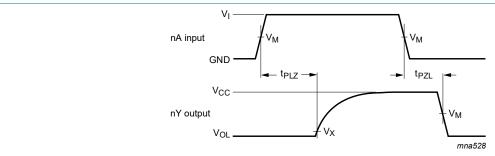
C<sub>L</sub> = output load capacitance in pF;

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

N = number of inputs switching;

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

#### 11.1. Waveforms and test circuit



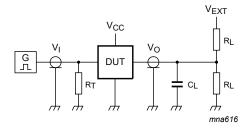
Measurement points are given in <u>Table 9</u>.

 $\ensuremath{V_{\text{OL}}}$  is the typical output voltage level that occurs with the output load.

#### Fig. 5. 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>        | V <sub>X</sub>           |  |
| 1.65 V to 1.95 V | 0.5 × V <sub>CC</sub> | 0.5 × V <sub>CC</sub> | V <sub>OL</sub> + 0.15 V |  |
| 2.3 V to 2.7 V   | 0.5 × V <sub>CC</sub> | 0.5 × V <sub>CC</sub> | V <sub>OL</sub> + 0.15 V |  |
| 2.7 V            | 1.5 V                 | 1.5 V                 | V <sub>OL</sub> + 0.3 V  |  |
| 3.0 V to 3.6 V   | 1.5 V                 | 1.5 V                 | V <sub>OL</sub> + 0.3 V  |  |
| 4.5 V to 5.5 V   | 0.5 × V <sub>CC</sub> | 0.5 × V <sub>CC</sub> | V <sub>OL</sub> + 0.3 V  |  |



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<sub>EXT</sub> = External voltage for measuring switching times.

Fig. 6. Test circuit for measuring switching times

Table 10. Test data

| Supply voltage   | Input           |             | Load  |       | V <sub>EXT</sub>                    |
|------------------|-----------------|-------------|-------|-------|-------------------------------------|
| V <sub>CC</sub>  | V <sub>I</sub>  | $t_r = t_f$ | CL    | $R_L$ | t <sub>PZL</sub> , t <sub>PLZ</sub> |
| 1.65 V to 1.95 V | V <sub>CC</sub> | ≤ 2.0 ns    | 30 pF | 1 kΩ  | 2 × V <sub>CC</sub>                 |
| 2.3 V to 2.7 V   | V <sub>CC</sub> | ≤ 2.0 ns    | 30 pF | 500 Ω | 2 × V <sub>CC</sub>                 |
| 2.7 V            | 2.7 V           | ≤ 2.5 ns    | 50 pF | 500 Ω | 6 V                                 |
| 3.0 V to 3.6 V   | 2.7 V           | ≤ 2.5 ns    | 50 pF | 500 Ω | 6 V                                 |
| 4.5 V to 5.5 V   | V <sub>CC</sub> | ≤ 2.5 ns    | 50 pF | 500 Ω | 2 × V <sub>CC</sub>                 |

## 12. Package outline

TSSOP8: plastic thin shrink small outline package; 8 leads; body width 3 mm; lead length 0.5 mm SOT505-2

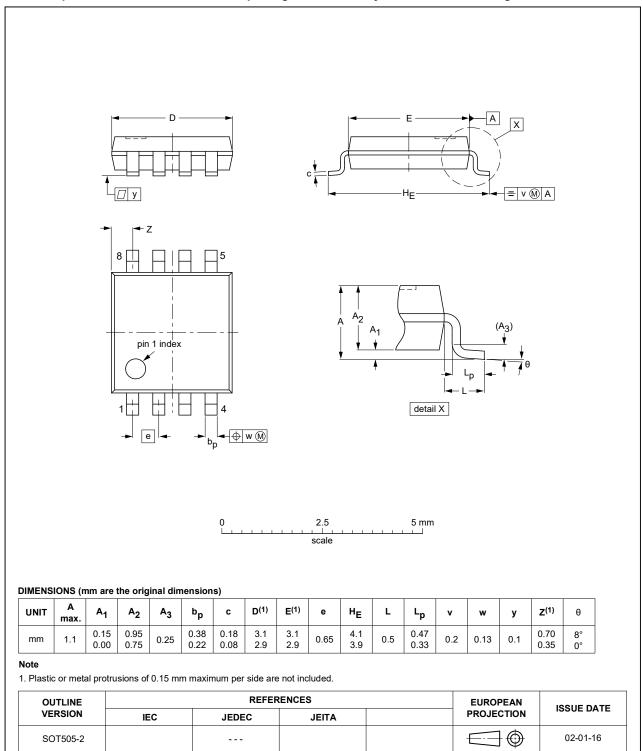


Fig. 7. Package outline SOT505-2 (TSSOP8)

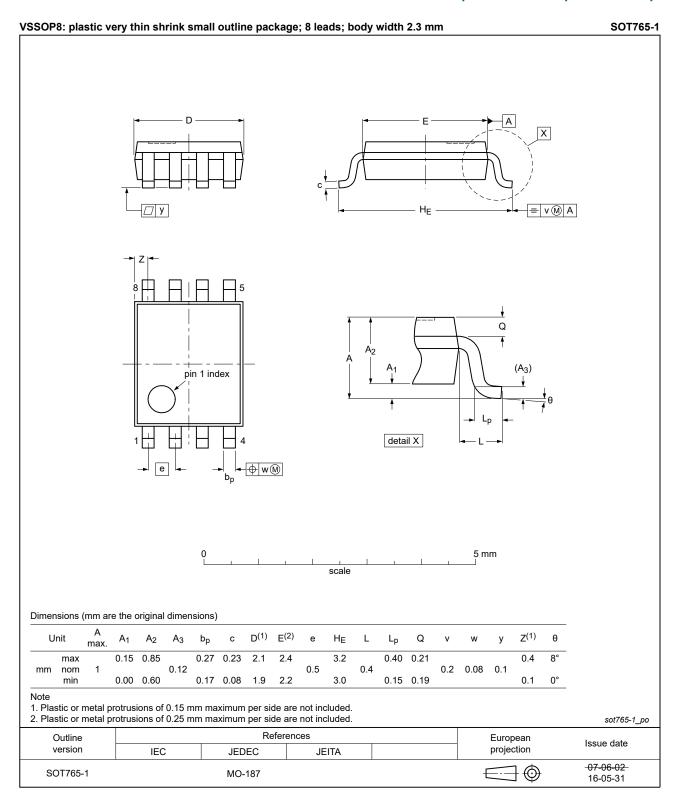


Fig. 8. Package outline SOT765-1 (VSSOP8)

### 13. Abbreviations

#### **Table 11. Abbreviations**

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

## 14. Revision history

#### Table 12. Revision history

| Document ID        | Release date  | Data sheet status  | Change notice | Supersedes         |  |  |
|--------------------|---|--------------------|---------------|--------------------|--|--|
| 74LVC3G07_Q100 v.4 | 20230824  | Product data sheet | -             | 74LVC3G07_Q100 v.3 |  |  |
| Modifications:     | <u>Section 2</u> : ESD specification updated according to the latest JEDEC standard.  |                    |               |                    |  |  |
| 74LVC3G07_Q100 v.3 | 20181023  | Product data sheet | -             | 74LVC3G07_Q100 v.2 |  |  |
| 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> </ul> |                    |               |                    |  |  |
| 74LVC3G07_Q100 v.2 | 20161214  | Product data sheet | -             | 74LVC3G07_Q100 v.1 |  |  |
| Modifications:     | • <u>Table 7</u> : The maximum limits for leakage current and supply current have changed.  |                    |               |                    |  |  |
| 74LVC3G07_Q100 v.1 | 20130129  | Product data sheet | -             | -                  |  |  |

**Product data sheet** 

### 15. Legal information

#### Data sheet status

| Document status [1][2]         | Product<br>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]<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".
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74LVC3G07\_Q100

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