74LVC3G07

Triple buffer with open-drain output

Rev. 14 — 28 January 2021

Product data sheet

1. General description

The 74LVC3G07 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.

2. Features and benefits

- 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).
- ESD protection:
 - HBM JESD22-A114F exceeds 2000 V
 - MM JESD22-A115-A exceeds 200 V
- -24 mA output drive (V_{CC} = 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
- Multiple package options
- Specified from -40 °C to +85 °C and -40 °C to +125 °C.



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3. Ordering information

Table 1. Ordering information

| Type number | Package | | | |
|-------------|-------------------|--------|---|----------|
| | Temperature range | Name | Description | Version |
| 74LVC3G07DP | -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 | -40 °C to +125 °C | VSSOP8 | plastic very thin shrink small outline package; 8 leads; body width 2.3 mm | SOT765-1 |
| 74LVC3G07GT | -40 °C to +125 °C | XSON8 | plastic extremely thin small outline package; no leads; 8 terminals; body 1 × 1.95 × 0.5 mm | SOT833-1 |
| 74LVC3G07GF | -40 °C to +125 °C | XSON8 | extremely thin small outline package; no leads; 8 terminals; body 1.35 × 1 × 0.5 mm | SOT1089 |
| 74LVC3G07GN | -40 °C to +125 °C | XSON8 | extremely thin small outline package; no leads; 8 terminals; body 1.2 × 1.0 × 0.35 mm | SOT1116 |
| 74LVC3G07GS | -40 °C to +125 °C | XSON8 | extremely thin small outline package; no leads; 8 terminals; body 1.35 × 1.0 × 0.35 mm | SOT1203 |

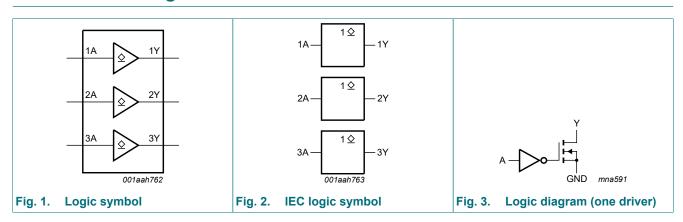
4. Marking

Table 2. Marking codes

| Type number | Marking code [1] |
|-------------|------------------|
| 74LVC3G07DP | V07 |
| 74LVC3G07DC | V07 |
| 74LVC3G07GT | V07 |
| 74LVC3G07GF | V7 |
| 74LVC3G07GN | V7 |
| 74LVC3G07GS | V7 |

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

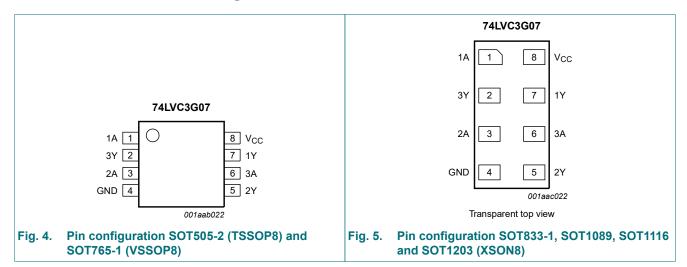
5. Functional diagram



Triple buffer with open-drain output

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 _{CC} | 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 | Z |

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

^[1] 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 _{CC} | 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 _{CC} = 0 V | 0 | 5.5 | V |
| T _{amb} | 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 |

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^[2] For SOT505-2 (TSSOP8) package: Ptot derates linearly with 4.6 mW/K above 96 °C.

For SOT765-1 (VSSOP8) package: Ptot derates linearly with 4.9 mW/K above 99 °C.

For SOT833-1 (XSON8) package: Ptot derates linearly with 3.1 mW/K above 68 °C.

For SOT1089 (XSON8) package: Ptot derates linearly with 4.0 mW/K above 88 °C.

For SOT1116 (XSON8) package: P_{tot} derates linearly with 4.2 mW/K above 90 °C.

For SOT1203 (XSON8) package: Ptot derates linearly with 3.6 mW/K above 81 °C.

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10. Static characteristics

Table 7. Static characteristics

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

| Symbol | Parameter | Conditions | T _{amb} = | T _{amb} = -40 °C to +85 °C | | | T _{amb} = -40 °C to +125 °C | |
|------------------|---------------------------|--|---------------------|-------------------------------------|---------------------|---------------------|--------------------------------------|----|
| | | | Min | Typ [1] | Max | Min | Max | |
| V _{IH} | HIGH-level input | V _{CC} = 1.65 V to 1.95 V | 0.65V _{CC} | - | - | 0.65V _{CC} | - | V |
| | voltage | V _{CC} = 2.3 V to 2.7 V | 1.7 | - | - | 1.7 | - | V |
| | | V _{CC} = 2.7 V to 3.6 V | 2.0 | - | - | 2.0 | - | V |
| | | V _{CC} = 4.5 V to 5.5 V | 0.7V _{CC} | - | - | 0.7V _{CC} | - | V |
| V _{IL} | LOW-level input | V _{CC} = 1.65 V to 1.95 V | - | - | 0.35V _{CC} | - | 0.35V _{CC} | V |
| | voltage | V _{CC} = 2.3 V to 2.7 V | - | - | 0.7 | - | 0.7 | V |
| | | V _{CC} = 2.7 V to 3.6 V | - | - | 0.8 | - | 0.8 | V |
| | | V _{CC} = 4.5 V to 5.5 V | - | - | 0.3V _{CC} | - | 0.3V _{CC} | V |
| V _{OL} | LOW-level output | $V_I = V_{IH}$ or V_{IL} | | | | | | |
| | voltage | I _O = 100 μA; V _{CC} = 1.65 V to 5.5 V | - | - | 0.1 | - | 0.1 | V |
| | | I _O = 4 mA; V _{CC} = 1.65 V | - | - | 0.45 | - | 0.70 | V |
| | | I _O = 8 mA; V _{CC} = 2.3 V | - | - | 0.3 | - | 0.45 | V |
| | | I _O = 12 mA; V _{CC} = 2.7 V | - | - | 0.4 | - | 0.60 | V |
| | | I _O = 24 mA; V _{CC} = 3.0 V | - | - | 0.55 | - | 0.80 | V |
| | | I _O = 32 mA; V _{CC} = 4.5 V | - | - | 0.55 | - | 0.80 | V |
| l _l | input leakage current | V _I = 5.5 V or GND; V _{CC} = 0 V to 5.5 V | - | ±0.1 | ±1 | - | ±1 | μA |
| l _{OZ} | OFF-state output current | $V_I = V_{IH}$ or V_{IL} ; $V_O = V_{CC}$ or GND; $V_{CC} = 5.5 \text{ V}$ | - | ±0.1 | ±2 | - | ±2 | μA |
| l _{OFF} | power-off leakage current | V_{I} or $V_{O} = 5.5 \text{ V}$; $V_{CC} = 0 \text{ V}$ | - | ±0.1 | ±2 | - | ±2 | μΑ |
| I _{CC} | supply current | V _I = 5.5 V or GND; I _O = 0 A; V _{CC} = 1.65 V to 5.5 V | - | 0.1 | 4 | - | 4 | μA |
| ΔI _{CC} | additional supply current | per pin; V _{CC} = 2.3 V to 5.5 V; V _I = V _{CC} - 0.6 V; I _O = 0 A | - | 5 | 500 | - | 500 | μA |
| Cı | input capacitance | | - | 2.5 | - | - | - | pF |

^[1] All typical values are measured at V_{CC} = 3.3 V and at T_{amb} = 25 °C.

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11. Dynamic characteristics

Table 8. Dynamic characteristics

Voltages are referenced to GND (ground = 0 V). For test circuit see Fig. 7.

| Symbol Parameter | | Conditions | | -40 °C to | ⊦85 °C | T _{amb} = -40 °C to +125 °C | | Unit |
|------------------|-------------------------------------|--|-----|-----------|--------|--------------------------------------|-----|------|
| | | | Min | Typ [1] | Max | Min | Max | |
| t _{pd} | propagation | nA to nY; see Fig. 6 [2] | | | | | | |
| | delay | V _{CC} = 1.65 V to 1.95 V | 1.0 | 2.9 | 6.7 | 1.0 | 8.4 | ns |
| | | V _{CC} = 2.3 V to 2.7 V | 0.5 | 1.7 | 4.3 | 0.5 | 5.5 | ns |
| | | V _{CC} = 2.7 V | 1.0 | 2.3 | 4.2 | 1.0 | 5.3 | ns |
| | | V _{CC} = 3.0 V to 3.6 V | 0.5 | 2.1 | 3.7 | 0.5 | 4.7 | ns |
| | | V _{CC} = 4.5 V to 5.5 V | 0.5 | 1.5 | 2.9 | 0.5 | 3.7 | ns |
| C _{PD} | power dissipation 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 μW).

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

f_i = input frequency in MHz;

f_o = output frequency in MHz;

C_L = output load capacitance in pF;

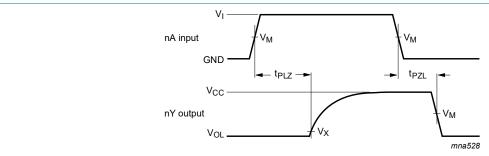
V_{CC} = supply voltage in V;

N = number of inputs switching;

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

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11.1. Waveforms and test circuit



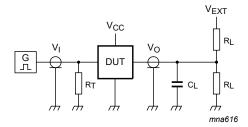
Measurement points are given in <u>Table 9</u>.

V_{OL} is the typical output voltage level that occurs with the output load.

Fig. 6. The input (nA) to output (nY) propagation delays

Table 9. Measurement points

| Supply voltage | Input | Output | | |
|------------------|-----------------------|-----------------------|--------------------------|--|
| V _{CC} | V _M | V _M | V _X | |
| 1.65 V to 1.95 V | 0.5 × V _{CC} | 0.5 × V _{CC} | V _{OL} + 0.15 V | |
| 2.3 V to 2.7 V | 0.5 × V _{CC} | 0.5 × V _{CC} | V _{OL} + 0.15 V | |
| 2.7 V | 1.5 V | 1.5 V | V _{OL} + 0.3 V | |
| 3.0 V to 3.6 V | 1.5 V | 1.5 V | V _{OL} + 0.3 V | |
| 4.5 V to 5.5 V | 0.5 × V _{CC} | 0.5 × V _{CC} | V _{OL} + 0.3 V | |



Test data is given in Table 10.

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 the output impedance Z_{o} of the pulse generator.

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

Fig. 7. Test circuit for measuring switching times

Table 10. Test data

| Supply voltage | Input | Loa | | Load | |
|------------------|-----------------|-------------|-------|-------|-------------------------------------|
| V _{CC} | V _I | $t_r = t_f$ | CL | R_L | t _{PZL} , t _{PLZ} |
| 1.65 V to 1.95 V | V _{CC} | ≤ 2.0 ns | 30 pF | 1 kΩ | 2 × V _{CC} |
| 2.3 V to 2.7 V | V _{CC} | ≤ 2.0 ns | 30 pF | 500 Ω | 2 × V _{CC} |
| 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 _{CC} | ≤ 2.5 ns | 50 pF | 500 Ω | 2 × V _{CC} |

Triple buffer with open-drain output

12. Package outline

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

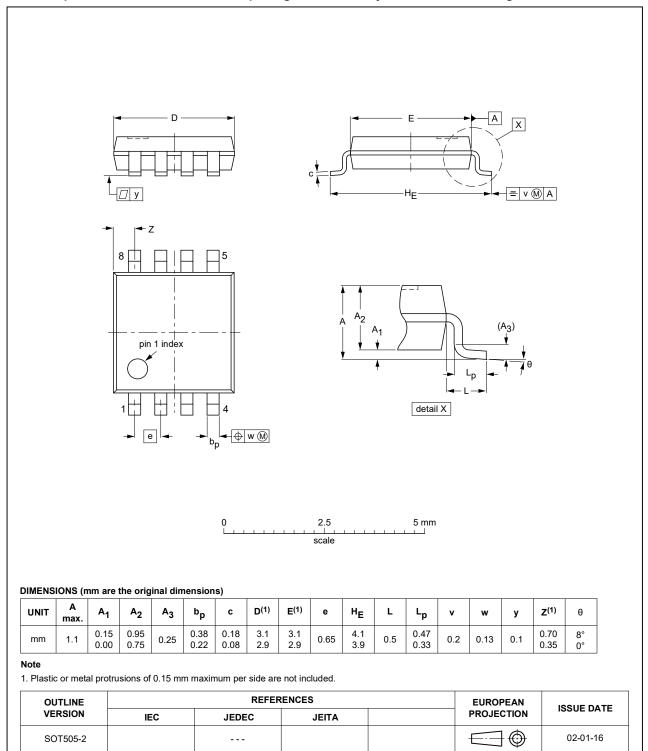


Fig. 8. Package outline SOT505-2 (TSSOP8)

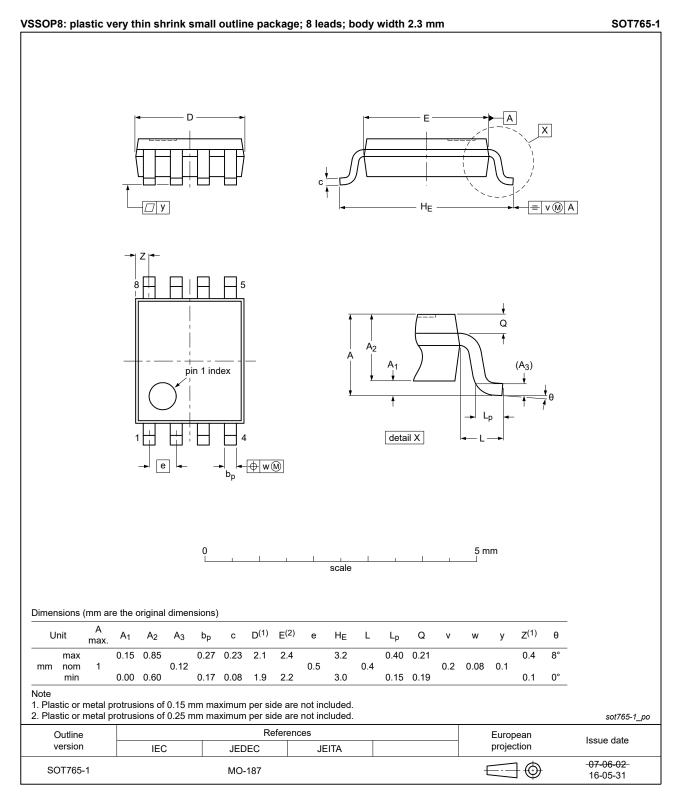


Fig. 9. Package outline SOT765-1 (VSSOP8)

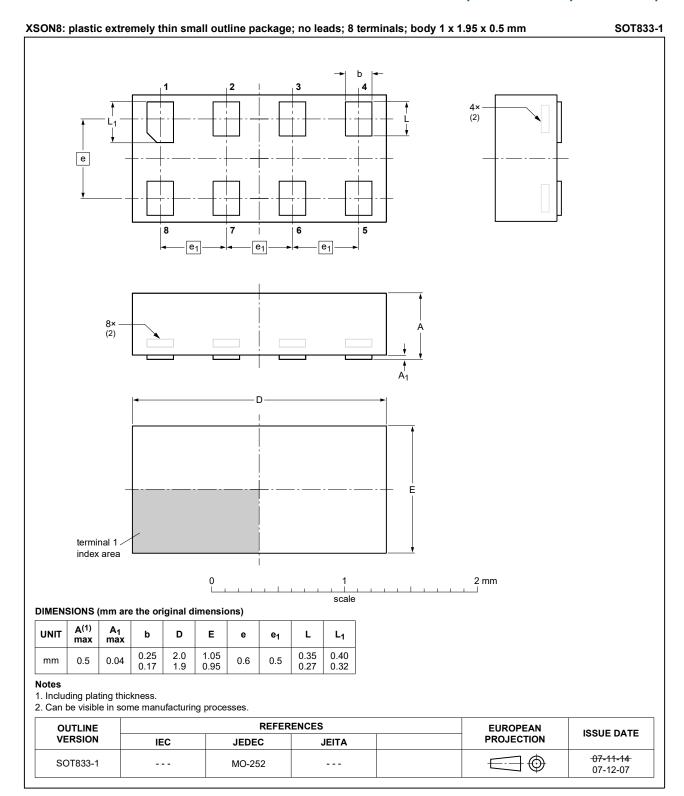


Fig. 10. Package outline SOT833-1 (XSON8)

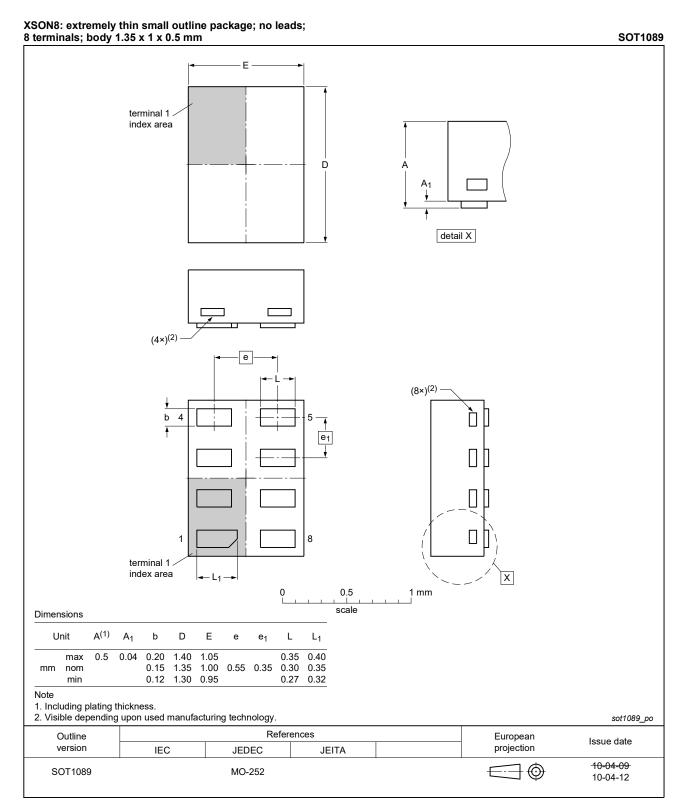


Fig. 11. Package outline SOT1089 (XSON8)

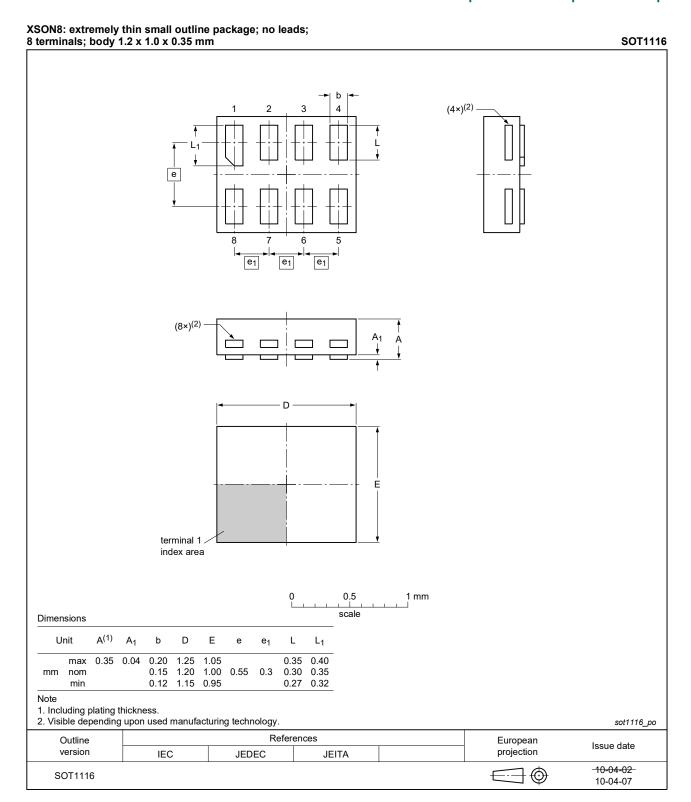


Fig. 12. Package outline SOT1116 (XSON8)

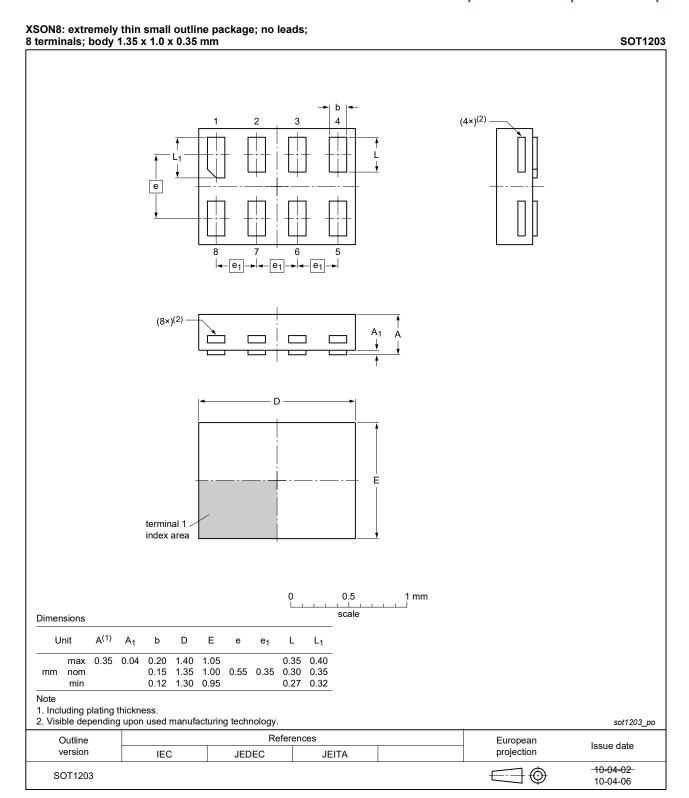


Fig. 13. Package outline SOT1203 (XSON8)

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13. Abbreviations

Table 11. 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

Table 12. Revision history

| Document ID | Release date | Data sheet status | Change notice | Supersedes | | |
|----------------|---------------------------|--|------------------|--------------------|--|--|
| 74LVC3G07 v.14 | 20210128 | Product data sheet | - | 74LVC3G07 v.13 | | |
| Modifications: | | er 74LVC3G07GM (SOTS erating values for P _{tot} total | , | | | |
| 74LVC3G07 v.13 | 20181023 | Product data sheet | - | 74LVC3G07 v.12 | | |
| Modifications: | guidelines of Legal texts | The format of this data sheet has been redesigned to comply with the identity guidelines of Nexperia. Legal texts have been adapted to the new company name where appropriate. Type number 74LVC3G07GD (SOT996-2) removed. | | | | |
| 74LVC3G07 v.12 | 20161215 | Product data sheet | - | 74LVC3G07 v.11 | | |
| Modifications: | • <u>Table 7</u> : Th | <u>Table 7</u> : The maximum limits for leakage current and supply current have changed | | | | |
| 74LVC3G07 v.11 | 20130409 | Product data sheet | - | 74LVC3G07 v.10 | | |
| Modifications: | For type nu | mber 74LVC3G07GD XS | ON8U has change | d to XSON8. | | |
| 74LVC3G07 v.10 | 20120627 | Product data sheet | - | 74LVC3G07 v.9 | | |
| Modifications: | For type nu | mber 74LVC3G07GM the | SOT code has cha | anged to SOT902-2. | | |
| 74LVC3G07 v.9 | 20111123 | Product data sheet | - | 74LVC3G07 v.8 | | |
| Modifications: | Legal page | s updated. | · | | | |
| 74LVC3G07 v.8 | 20111019 | Product data sheet | - | 74LVC3G07 v.7 | | |
| 74LVC3G07 v.7 | 20100809 | Product data sheet | - | 74LVC3G07 v.6 | | |
| 74LVC3G07 v.6 | 20080616 | Product data sheet | - | 74LVC3G07 v.5 | | |
| 74LVC3G07 v.5 | 20080219 | Product data sheet | - | 74LVC3G07 v.4 | | |
| 74LVC3G07 v.4 | 20070521 | Product data sheet | - | 74LVC3G07 v.3 | | |
| 74LVC3G07 v.3 | 20050201 | Product data sheet | - | 74LVC3G07 v.2 | | |
| 74LVC3G07 v.2 | 20041027 | Product data sheet | - | 74LVC3G07 v.1 | | |
| 74LVC3G07 v.1 | 20040608 | Product data sheet | - | - | | |

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15. Legal information

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| Document status [1][2] | Product status [3] | Definition |
|--------------------------------|-----------------------|---|
| Objective [short] data sheet | Development | This document contains data from the objective specification for product development. |
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