Product data sheet

1 **General description**

The 74HC3G34; 74HCT3G34 is a triple buffer. Inputs include clamp diodes. This enables the use of current limiting resistors to interface inputs to voltages in excess of V_{CC} .

Features and benefits 2

- Wide supply voltage range from 2.0 V to 6.0 V
- Input levels:
 - For 74HC3G34: CMOS level
 - For 74HCT3G34: TTL level
- Complies with JEDEC standard no. 7 A
- Symmetrical output impedance
- High noise immunity
- Low-power dissipation
- Balanced propagation delays
- Multiple package options
- ESD protection:
 - HBM JESD22-A114E exceeds 2000 V
 - MM JESD22-A115-A exceeds 200 V
- Specified from -40 °C to +85 °C and -40 °C to +125 °C

3 **Ordering information**

| Table 1. Ordering information | | | | | | | | | | |
|-------------------------------|-------------------|--------|---|----------|--|--|--|--|--|--|
| Type number | nber Package | | | | | | | | | |
| | Temperature range | Name | Description | Version | | | | | | |
| 74HC3G34DP | -40 °C to +125 °C | TSSOP8 | plastic thin shrink small outline package; 8 leads; | SOT505-2 | | | | | | |
| 74HCT3G34DP | | | body width 3 mm; lead length 0.5 mm | | | | | | | |
| 74HC3G34DC | -40 °C to +125 °C | VSSOP8 | plastic very thin shrink small outline package; | SOT765-1 | | | | | | |
| 74HCT3G34DC | | | 8 leads; body width 2.3 mm | | | | | | | |

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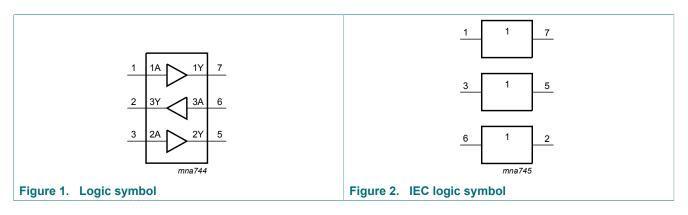
Triple buffer gate

4 Marking

| Table 2. Marking | |
|------------------|-----------------------------|
| Type number | Marking code ^[1] |
| 74HC3G34DP | H34 |
| 74HCT3G34DP | T34 |
| 74HC3G34DC | P34 |
| 74HCT3G34DC | U34 |

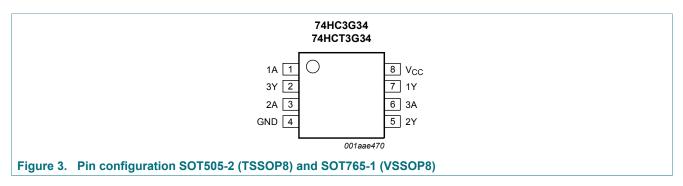
[1] The pin 1 indicator is located on the lower left corner of the device, below the marking code.

5 Functional diagram



6 **Pinning information**

6.1 Pinning



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6.2 Pin description

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

Functional description 7

Table 4. Function table

H = HIGH voltage level; L = LOW voltage level.

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

Limiting values 8

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 | +7.0 | V |
| I _{IK} | input clamping current | $V_{\rm I}$ < -0.5 V or $V_{\rm I}$ > $V_{\rm CC}$ + 0.5 V | [1] | - | ±20 | mA |
| I _{ОК} | output clamping current | $V_{\rm O}$ < -0.5 V or $V_{\rm O}$ > $V_{\rm CC}$ + 0.5 V | [1] | - | ±20 | mA |
| lo | output current | V_{O} = -0.5 V to (V_{CC} + 0.5 V) | | - | ±25 | mA |
| I _{CC} | quiescent supply current | | | - | 50 | mA |
| I _{GND} | ground current | | | -50 | - | mA |
| T _{stg} | storage temperature | | | -65 | +150 | °C |
| P _{tot} | total power dissipation | T _{amb} = -40 °C to +125 °C | [2] | - | 300 | mW |

For VSSOP8 package: above 110 °C the value of Ptot derates linearly with 8 mW/K.

9 Recommended operating conditions

Table 6. Recommended operating conditions

Voltages are referenced to GND (ground = 0 V).

| Symbol | Parameter | Conditions | 7 | 74HC3G34 | | | 4HCT3G | 34 | Unit |
|------------------|-----------------------|-------------------------|-----|----------|-----------------|-----|--------|-----------------|------|
| | | | Min | Тур | Мах | Min | Тур | Мах | |
| V _{CC} | supply voltage | | 2.0 | 5.0 | 6.0 | 4.5 | 5.0 | 5.5 | V |
| VI | input voltage | | 0 | - | V _{CC} | 0 | - | V _{CC} | 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 | V _{CC} = 2.0 V | - | - | 625 | - | - | - | ns/V |
| | and fall rate | V _{CC} = 4.5 V | - | 1.67 | 139 | - | 1.67 | 139 | ns/V |
| | | V _{CC} = 6.0 V | - | - | 83 | - | - | - | ns/V |

10 Static characteristics

Table 7. Static characteristics

Voltages are referenced to GND (ground = 0 V).

| Symbol | Parameter | Conditions | -40 | °C to +8 | 5 °C | -40 °C t | o +125 °C | Unit |
|-----------------|------------------------------|---|------|--------------------|------|----------|-----------|------|
| | | | Min | Typ ^[1] | Мах | Min | Max | |
| 74HC3G3 | 4 | | | | | | | |
| V _{IH} | HIGH-level input | V _{CC} = 2.0 V | 1.5 | 1.2 | - | 1.5 | - | V |
| | voltage | V _{CC} = 4.5 V | 3.15 | 2.4 | - | 3.15 | - | V |
| | | V _{CC} = 6.0 V | 4.2 | 3.2 | - | 4.2 | - | V |
| V _{IL} | LOW-level input | V _{CC} = 2.0 V | - | 0.8 | 0.5 | - | 0.5 | V |
| | voltage | V _{CC} = 4.5 V | - | 2.1 | 1.35 | - | 1.35 | V |
| | | V _{CC} = 6.0 V | - | 2.8 | 1.8 | - | 1.8 | V |
| V _{OH} | HIGH-level output voltage | $V_{I} = V_{IH} \text{ or } V_{IL}$ | | | | | | |
| | | I _O = -20 μA; V _{CC} = 2.0 V | 1.9 | 2.0 | - | 1.9 | - | V |
| | | I _O = -20 μA; V _{CC} = 4.5 V | 4.4 | 4.5 | - | 4.4 | - | V |
| | | I _O = -20 μA; V _{CC} = 6.0 V | 5.9 | 6.0 | - | 5.9 | - | V |
| | | I_{O} = -4.0 mA; V_{CC} = 4.5 V | 4.13 | 4.32 | - | 3.7 | - | V |
| | | I _O = -5.2 mA; V _{CC} = 6.0 V | 5.63 | 5.81 | - | 5.2 | - | V |
| V _{OL} | LOW-level output | $V_{I} = V_{IH} \text{ or } V_{IL}$ | | | | | | |
| | voltage | I_0 = 20 µA; V_{CC} = 2.0 V | - | 0 | 0.1 | - | 0.1 | V |
| | | I_0 = 20 µA; V_{CC} = 4.5 V | - | 0 | 0.1 | - | 0.1 | V |
| | | I_0 = 20 µA; V_{CC} = 6.0 V | - | 0 | 0.1 | - | 0.1 | V |
| | | I _O = 4.0 mA; V _{CC} = 4.5 V | - | 0.15 | 0.33 | - | 0.4 | V |
| | | $I_{\rm O}$ = 5.2 mA; $V_{\rm CC}$ = 6.0 V | - | 0.16 | 0.33 | - | 0.4 | V |
| lı | input leakage current | $V_{I} = V_{CC}$ or GND; $V_{CC} = 6.0 V$ | - | - | ±1.0 | - | ±1.0 | μA |

74HC3G34; 74HCT3G34

Triple buffer gate

| Symbol | Parameter | Conditions | -40 | °C to +8 | 5 °C | -40 °C t | o +125 °C | Unit |
|------------------|---------------------------|--|------|--------------------|------|----------|-----------|------|
| | | | Min | Typ ^[1] | Мах | Min | Мах | |
| I _{CC} | supply current | per input pin; V _I = V _{CC} or GND; I _O = 0 A; V _{CC} = 6.0 V | - | - | 10 | - | 20 | μA |
| CI | input capacitance | | - | 1.5 | - | - | - | pF |
| 74HCT3G | 34 | | | | | 1 | 1 | |
| V _{IH} | HIGH-level input voltage | V_{CC} = 4.5 V to 5.5 V | 2.0 | 1.6 | - | 2.0 | - | V |
| VIL | LOW-level input voltage | V_{CC} = 4.5 V to 5.5 V | - | 1.2 | 0.8 | - | 0.8 | V |
| V _{OH} | HIGH-level output | $V_{I} = V_{IH} \text{ or } V_{IL}$ | | | | | | |
| | voltage | I_{O} = -20 µA; V_{CC} = 4.5 V | 4.4 | 4.5 | - | 4.4 | - | V |
| | | $I_{\rm O}$ = -4.0 mA; $V_{\rm CC}$ = 4.5 V | 4.13 | 4.32 | - | 3.7 | - | V |
| V _{OL} | LOW-level output | $V_{I} = V_{IH} \text{ or } V_{IL}$ | | | | | | |
| | voltage | I_{O} = 20 µA; V_{CC} = 4.5 V | - | 0 | 0.1 | - | 0.1 | V |
| | | I_{O} = 4.0 mA; V_{CC} = 4.5 V | - | 0.15 | 0.33 | - | 0.4 | V |
| I | input leakage current | V_{I} = V_{CC} or GND; V_{CC} = 5.5 V | - | - | ±1.0 | - | ±1.0 | μA |
| I _{CC} | supply current | $V_1 = V_{CC}$ or GND; $I_0 = 0$ A; $V_{CC} = 5.5$ V | - | - | 10 | - | 20 | μA |
| ΔI _{CC} | additional supply current | per input; V_{CC} = 4.5 V to 5.5 V; V _I = V _{CC} - 2.1 V; I _O = 0 A | - | - | 375 | - | 410 | μA |
| CI | input capacitance | | - | 1.5 | - | - | - | pF |

[1] All typical values are measured at T_{amb} = 25 $^\circ C.$

11 Dynamic characteristics

Table 8. Dynamic characteristics

Voltages are referenced to GND (ground = 0 V); for test circuit see Figure 5.

| Symbol | Parameter | Conditions | | -40 °C to +85 °C | | | -40 °C t | o +125 °C | Unit |
|-----------------|-------------------------------|-------------------------|-----|------------------|--------------------|-----|----------|-----------|------|
| | | | | Min | Typ ^[1] | Мах | Min | Мах | |
| 74HC3G | 34 | | | | | | | 1 | |
| t _{pd} | propagation delay | nA to nY; see Figure 4 | [2] | | | | | | |
| | | V _{CC} = 2.0 V | | - | 29 | 95 | - | 125 | ns |
| | | V _{CC} = 4.5 V | | - | 9 | 19 | - | 25 | ns |
| | | V _{CC} = 6.0 V | | - | 8 | 16 | - | 20 | ns |
| t _t | transition time | nY; see <u>Figure 4</u> | [3] | | | | | | |
| | | V _{CC} = 2.0 V | | - | 18 | 95 | - | 125 | ns |
| | | V _{CC} = 4.5 V | | - | 6 | 19 | - | 25 | ns |
| | | V _{CC} = 6.0 V | | - | 5 | 16 | - | 20 | ns |
| C _{PD} | power dissipation capacitance | $V_I = GND$ to V_{CC} | [4] | - | 10 | - | - | - | pF |

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ata sheet

74HC3G34; 74HCT3G34

Triple buffer gate

| Symbol | Parameter | Conditions | | -40 °C to +85 °C | | | -40 °C t | Unit | |
|-----------------|-------------------------------|--|-----|------------------|--------------------|-----|----------|------|----|
| | | | - | Min | Typ ^[1] | Мах | Min | Мах |] |
| 74HCT3 | G34 | | I | | | | 1 | 1 | _ |
| t _{pd} | propagation delay | nA to nY; see Figure 4 | [2] | | | | | | |
| | | V _{CC} = 4.5 V | | - | 10 | 23 | - | 29 | ns |
| t _t | transition time | nY; V _{CC} = 4.5 V; see <u>Figure 4</u> | [3] | - | 6 | 19 | - | 25 | ns |
| C _{PD} | power dissipation capacitance | $V_I = GND$ to V_{CC} - 1.5 V | [4] | - | 9 | - | - | - | pF |

[1] All typical values are measured at T_{amb} = 25 °C.

[2] t_{pd} is the same as t_{PLH} and t_{PHL} .

[4] t_{i} is the same as t_{TH} and t_{THL} . [4] 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:

f_i = input frequency in MHz;

 f_0 = output frequency in MHz;

C_L = output load capacitance in pF;

V_{CC} = supply voltage in V;

N = number of inputs switching;

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

11.1 Waveform and test circuit

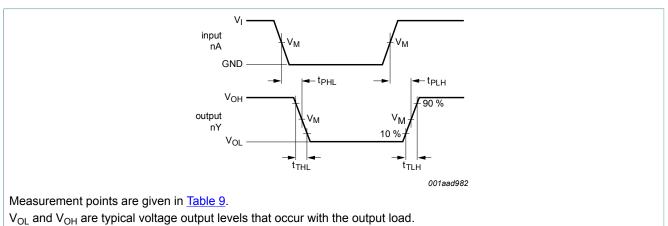


Figure 4. Propagation delay data input (nA) to data output (nY) and transition time output (nY)

Table 9. Measurement points

| Туре | Input | Output |
|-----------|---------------------|-----------------------|
| | V _M | V _M |
| 74HC3G34 | $0.5 \times V_{CC}$ | 0.5 x V _{CC} |
| 74HCT3G34 | 1.3 V | 1.3 V |

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74HC3G34; 74HCT3G34

Triple buffer gate

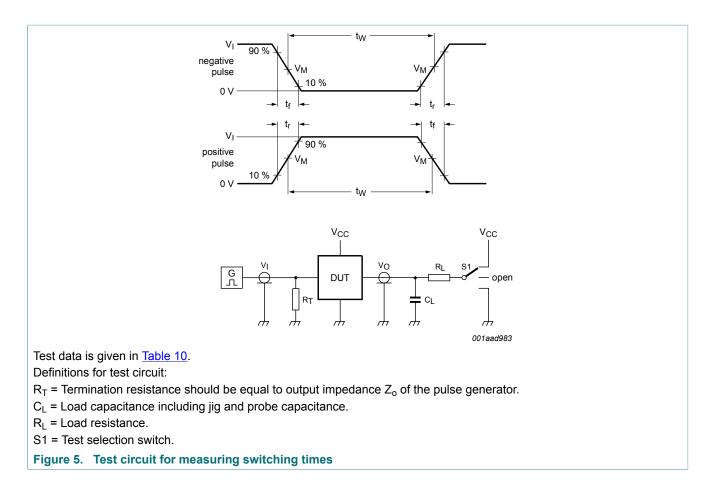


Table 10. Test data

| Туре | Input Load | | Load | | S1 position |
|-----------|------------------------|---------------------------------|-------|------|-------------------------------------|
| | VI | t _r , t _f | CL | RL | t _{PHL} , t _{PLH} |
| 74HC3G34 | GND to V _{CC} | ≤ 6 ns | 50 pF | 1 kΩ | open |
| 74HCT3G34 | GND to 3 V | ≤ 6 ns | 50 pF | 1 kΩ | open |

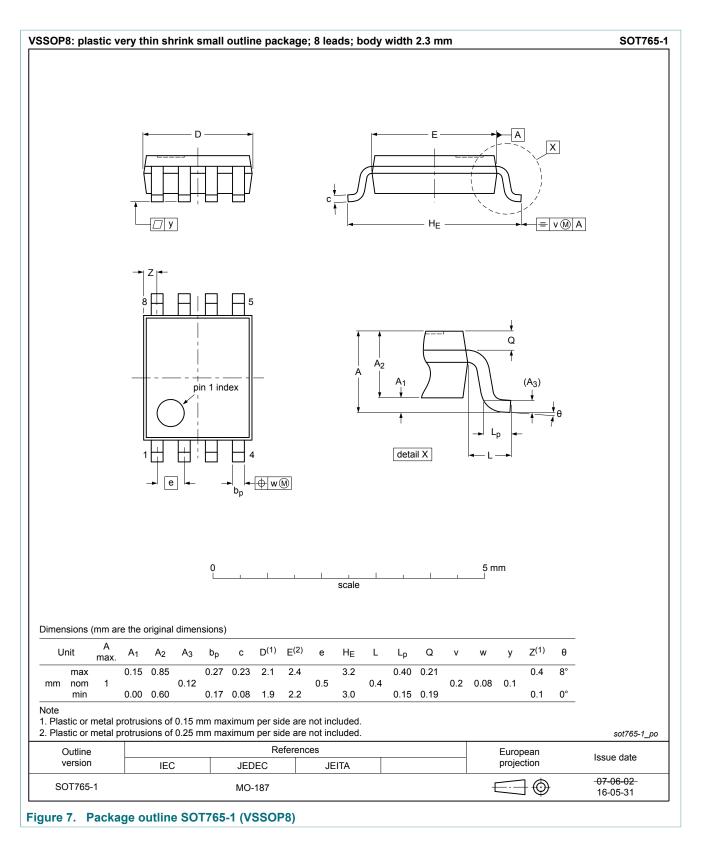
Triple buffer gate

12 Package outline

| | | | | | | | | | | | | E | | | | MA | | |
|---------------------------------|------------------------------|--------------------------------------|--------------------------------------|-------------------------------|--------------|--------------|------------------|------------------|--------------|---|----------------|-------|---------|----------------|-------------------|------------------|------------------------|---|
| | | | | 7 | | | | | | | | E | | | | | | |
| | | | 8 | z - - | | 5 | | | | | | | | | | | | |
| | | | | | | | | | , | | A ₁ |) | | (| A ₃) | | | |
| | | | pin | 1 index | | | | | | <u>, </u> | <u>↓</u> | / | | | <u>↓</u> → → 0 | | | |
| | | | | · · · · · | | | | | | | 1 | | -≽ | Lp ◀ _ ━► | ' 7 | | | |
| | | | 1 | t≓ i t | | 4 | | | | | | detai | ΙX | | | | | |
| | | | | • | → b | ₽ ₽ | w M | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | 0 | | | 2.5 scale | 1 1 1 | | 5 mm | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | the orig | inal din | nension | s) | | | | 1 | 1 | 1 | | 1 | 1 | 1 | | 1 |
| IMENS | 1 | nm are | | | bp | с | D ⁽¹⁾ | E ⁽¹⁾ | e | Η _E | L | Lp | v | w | У | Z ⁽¹⁾ | θ | |
| | IONS (r A max. | A ₁ | A ₂ | A3 | - | | | | | 4.1 | 0.5 | 0.47 | 0.2 | 0.13 | 0.1 | 0.70 | 8° | 1 |
| UNIT | Α | | A₂ 0.95 0.75 | A ₃ 0.25 | 0.38 0.22 | 0.18 0.08 | 3.1 2.9 | 3.1 2.9 | 0.65 | 3.9 | 0.5 | 0.33 | | | | 0.35 | 0° | |
| UNIT mm lote | A max. 1.1 | A ₁ 0.15 | 0.95 0.75 | 0.25 | 0.38 0.22 | 0.08 | 2.9 | 2.9 | | | 0.5 | 0.33 | | | | 0.35 | 0. | |
| UNIT mm lote . Plastic | A max. 1.1 c or met | A₁ 0.15 0.00 | 0.95 0.75 | 0.25 | 0.38 0.22 | 0.08 | 2.9 side are | 2.9 | luded. | | 0.5 | 0.33 | | EURO | PEAN | | | |
| UNIT mm lote . Plastic | A max. 1.1 | A₁ 0.15 0.00 | 0.95 0.75 sions of | 0.25 | 0.38 0.22 | 0.08 | 2.9 side are | 2.9 e not inc | luded. | | 0.5 | 0.33 | | EUROI PROJE | PEAN | | SUE D 02-01- | |

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Triple buffer gate



74HC_HCT3G34 Product data sheet

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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 74HC HCT3G34 v.7 20180611 Product data sheet 74HC HCT3G34 v.6 Modifications: · 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 numbers 74HC3G34GD and 74HCT3G34GD removed. 74HC HCT3G34 v.6 20131211 Product data sheet 74HC HCT3G34 v.5 _ Modifications: For type numbers 74HC3G34GD and 74HCT3G34GD XSON8U has changed to XSON8. 74HC HCT3G34 v.5 Product data sheet 20090507 74HC HCT3G34 v.4 _ 74HC HCT3G34 v.4 20060309 Product data sheet 74HC HCT3G34 v.3 _ 74HC_HCT3G34 v.3 20030519 Product specification 74HC_HCT3G34 v.2 _ 74HC_HCT3G34 v.2 20030210 Product specification 74HC HCT3G34 v.1 _ 74HC_HCT3G34 v.1 20031003 Product specification

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. |
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[2] [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.nexperia.com.

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Triple buffer gate

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