Triple inverter with open-drain outputs Rev. 5 — 1 May 2019

1. General description

The 74HC3G06; 74HCT3G06 is a triple inverter with open-drain outputs. Inputs include clamp diodes. This enables the use of current limiting resistors to interface inputs to voltages in excess of $V_{CC}.$

2. Features and benefits

- Wide supply voltage range from 2.0 V to 6.0 V
 - Input levels:
 - For 74HC3G06: CMOS level
 - For 74HCT3G06: TTL level
- Complies with JEDEC standard no. 7A
- High noise immunity
- Low power dissipation
- ESD protection:
 - HBM JESD22-A114F 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 | Package | | | | | | | | | |
|-------------|-------------------|--------|---|----------|--|--|--|--|--|--|
| | Temperature range | Name | Description | Version | | | | | | |
| 74HC3G06DC | -40 °C to +125 °C | VSSOP8 | plastic very thin shrink small outline package; | SOT765-1 | | | | | | |
| 74HCT3G06DC | | | 8 leads; body width 2.3 mm | | | | | | | |

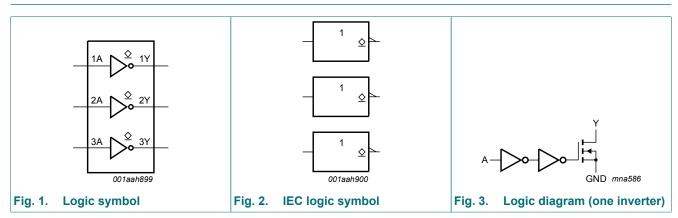
4. Marking

| Table 2. Marking code | | | | | | |
|-----------------------|------------------|--|--|--|--|--|
| Type number | Marking code [1] | | | | | |
| 74HC3G06DC | H06 | | | | | |
| 74HCT3G06DC | Т06 | | | | | |

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

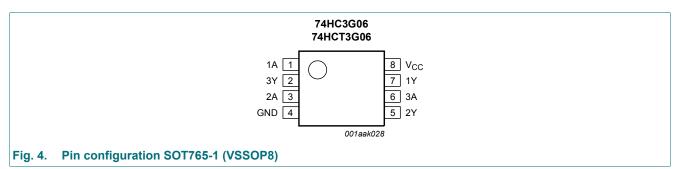


5. Functional diagram



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 _{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 | Z |
| 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).

| Parameter | Conditions | | Min | Max | Unit |
|---------------------------|--|---|---|--|--|
| supply voltage | | | -0.5 | 7.0 | V |
| input clamping current | $V_{\rm I}$ < -0.5 V or $V_{\rm I}$ > $V_{\rm CC}$ + 0.5 V | [1] | - | ±20 | mA |
| output clamping current | V _O < -0.5 V | [1] | -20 | - | mA |
| output voltage | active mode | [1] | -0.5 | V _{CC} + 0.5 | V |
| | high-impedance mode | [1] | -0.5 | 7.0 | V |
| output current | V _O = -0.5 V to 7.0 V | [1] | - | 25 | mA |
| supply current | | [1] | - | 50 | mA |
| ground current | | [1] | -50 | - | mA |
| storage temperature | | | -65 | +150 | °C |
| dynamic power dissipation | T_{amb} = -40 °C to +125 °C | [2] | - | 300 | mW |
| | supply voltage input clamping current output clamping current output voltage output current supply current ground current storage temperature | supply voltageImage: supply voltageinput clamping current $V_1 < -0.5 \vee \text{ or } V_1 > V_{CC} + 0.5 \vee$ output clamping current $V_0 < -0.5 \vee$ output voltageactive modehigh-impedance modeoutput current $V_0 = -0.5 \vee \text{ to } 7.0 \vee$ supply currentground currentstorage temperatureImage: storage temperature | supply voltageImage: Supply voltageinput clamping current $V_1 < -0.5 V \text{ or } V_1 > V_{CC} + 0.5 V$ [1]output clamping current $V_0 < -0.5 V$ [1]output voltageactive mode[1]high-impedance mode[1]output current $V_0 = -0.5 V$ to $7.0 V$ [1]supply current[1]ground current[1]storage temperature[1] | supply voltage -0.5 input clamping current $V_1 < -0.5 \lor or \lor_1 > \lor_{CC} + 0.5 \lor$ [1] - output clamping current $V_0 < -0.5 \lor or \lor_1 > \lor_{CC} + 0.5 \lor$ [1] -20 output clamping current $V_0 < -0.5 \lor$ [1] -0.5 output voltage active mode [1] -0.5 output current $V_0 = -0.5 \lor to 7.0 \lor$ [1] -0.5 output current $V_0 = -0.5 \lor to 7.0 \lor$ [1] - supply current [1] - - ground current [1] - - storage temperature [1] -50 - | supply voltage -0.5 7.0 input clamping current $V_1 < -0.5 \lor or \lor_1 > \lor_{CC} + 0.5 \lor$ [1] - ± 20 output clamping current $V_0 < -0.5 \lor or \lor_1 > \lor_{CC} + 0.5 \lor$ [1] -20 - output clamping current $V_0 < -0.5 \lor$ [1] -20 - output voltage active mode [1] -0.5 $V_{CC} + 0.5$ high-impedance mode [1] -0.5 7.0 output current $V_0 = -0.5 \lor to 7.0 \lor$ [1] -0.5 supply current [1] -0.5 7.0 ground current $V_0 = -0.5 \lor to 7.0 \lor$ [1] - 25 supply current [1] - 50 - ground current [1] -50 - - storage temperature [1] -50 + 150 |

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

[2] 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 | 74HC3G06 | | | 74HCT3G06 | | |
|------------------|-------------------------------------|-------------------------|-----|----------|-----------------|-----|-----------|-----------------|------|
| | | | Min | Тур | Max | Min | Тур | Max | |
| V _{CC} | supply voltage | | 2.0 | 5.0 | 6.0 | 4.5 | 5.0 | 5.5 | V |
| VI | input voltage | | 0 | - | 6.0 | 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 fall rate | V _{CC} = 2.0 V | - | - | 625 | - | - | - | ns/V |
| | | 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). All typical values are measured at T_{amb} = 25 °C.

| Symbol | Parameter | Conditions | -40 °C to +85 °C | | | -40 °C to +125 °C | | Unit |
|-----------------|------------------|-------------------------|------------------|---------|------|-------------------|------|------|
| | | | Min | Typ [1] | Max | Min | Max | |
| 74HC3G | 06 | | | | | | | |
| 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 |
| 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 |

Triple inverter with open-drain outputs

| Symbol | Parameter | Conditions | -40 | 0 °C to +85 | °C | -40 °C to +125 °C | | Unit |
|------------------|---------------------------|---|-----|-------------|------|-------------------|------|------|
| | | | Min | Тур [1] | Max | Min | Max | |
| V _{OL} | LOW-level output | $V_{I} = V_{IH} \text{ or } V_{IL}$ | | | | | | |
| | voltage | I _O = 20 μA; V _{CC} = 2.0 V | - | 0 | 0.1 | - | 0.1 | V |
| | | I _O = 20 μA; V _{CC} = 4.5 V | - | 0 | 0.1 | - | 0.1 | V |
| | | I _O = 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 _O = 5.2 mA; V _{CC} = 6.0 V | - | 0.16 | 0.33 | - | 0.4 | V |
| I | input leakage current | $V_{I} = V_{CC}$ or GND; $V_{CC} = 6.0 V$ | - | - | ±0.1 | - | ±1.0 | μA |
| I _{LO} | output leakage current | $V_{I} = V_{IL}$; $V_{O} = V_{CC}$ or GND | - | - | ±5.0 | - | ±10 | μA |
| I _{CC} | supply current | per input pin; V_{CC} = 6.0 V; V _I = V _{CC} or GND; I _O = 0 A | - | - | 10 | - | 20 | μA |
| CI | input capacitance | | - | 1.5 | - | - | - | pF |
| 74HCT3 | G06 | 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 _{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 |
| lı | input leakage current | $V_{I} = V_{CC}$ or GND; $V_{CC} = 5.5 V$ | - | - | ±1.0 | - | ±1.0 | μA |
| I _{LO} | output leakage current | $V_{I} = V_{IL}; V_{O} = V_{CC} \text{ or } GND$ | - | - | ±5.0 | - | ±10 | μA |
| I _{CC} | supply current | per input pin; V_{CC} = 5.5 V; V _I = V _{CC} or GND; I _O = 0 A | - | - | 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] Typical values are measured at T_{amb} = 25 °C.

11. Dynamic characteristics

Table 8. Dynamic characteristics

Voltages are referenced to GND (ground = 0 V); all typical values are measured at T_{amb} = 25 °C; for test circuit see Fig. 6.

| Symbol | Parameter | Conditions | -40 °C to +85 °C | | | c to +85 °C -40 °C to +125 °C | | |
|--------|-------------------|-------------------------|------------------|-----|-----|-------------------------------|-----|----|
| | | | | Тур | Max | Min | Max | |
| 74HC3G | 06 | | | | | | | |
| 1 26 | OFF-state to LOW | nA to nY; see Fig. 5 | | | | | | |
| | propagation delay | V _{CC} = 2.0 V | - | 22 | 95 | - | 125 | ns |
| | | V _{CC} = 4.5 V | - | 9 | 18 | - | 25 | ns |
| | | V _{CC} = 6.0 V | - | 8 | 16 | - | 20 | ns |

Triple inverter with open-drain outputs

| Symbol | Parameter | Conditions | | -40 |) °C to +85 | °C | -40 °C te | o +125 °C | Unit |
|------------------|------------------------------------|--|-----|-----|-------------|-----|-----------|-----------|------|
| | | | | Min | Тур | Max | Min | Max | |
| -1 LZ | LOW to OFF-state | nA to nY; see Fig. 5 | | | | | | | |
| | propagation delay | V _{CC} = 2.0 V | | - | 24 | 95 | - | 125 | ns |
| | | V _{CC} = 4.5 V | | - | 11 | 20 | - | 27 | ns |
| | | V _{CC} = 6.0 V | | - | 10 | 19 | - | 23 | ns |
| t _{THL} | HIGH to LOW output | nY; see <u>Fig. 5</u> | | | | | | | |
| | transition time | 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} | [1] | - | 4 | - | - | - | pF |
| 74HCT3 | G06 | | | | | | | | |
| t _{PZL} | OFF-state to LOW | nA to nY; see Fig. 5 | | | | | | | |
| | propagation delay | V _{CC} = 4.5 V | | - | 9 | 24 | - | 29 | ns |
| t _{PLZ} | LOW to OFF-state | nA to nY; see Fig. 5 | | | | | | | |
| | propagation delay | V _{CC} = 4.5 V | | - | 12 | 27 | - | 32 | ns |
| t _{THL} | HIGH to LOW output transition time | V _{CC} = 4.5 V; see <u>Fig. 5</u> | | - | 6 | 19 | - | 22 | ns |
| C _{PD} | power dissipation capacitance | V_{I} = GND to V_{CC} - 1.5 V | [1] | - | 4 | | - | - | pF |

[1] C_{PD} is used to determine the dynamic power dissipation (P_D in μ W).

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

 f_i = input frequency in MHz;

 f_o = output frequency in MHz;

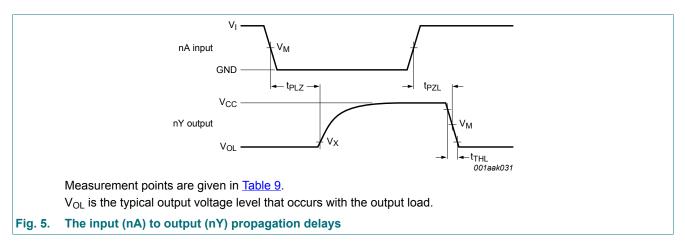
 C_L = output load capacitance in pF;

V_{CC} = supply voltage in V;

N = number of inputs switching;

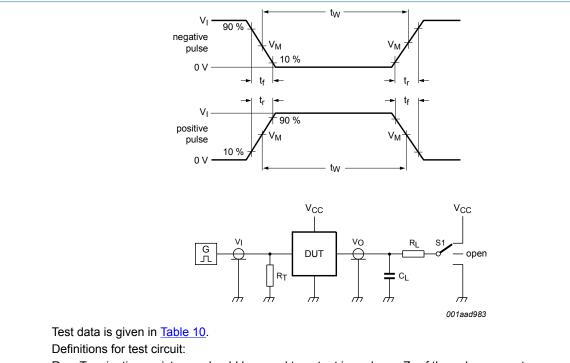
 $\Sigma(C_L \times V_{CC}^2 \times f_o)$ = sum of outputs.

11.1. Waveforms and test circuit



Triple inverter with open-drain outputs

| Table 9. Measurement points | | | | | | |
|-----------------------------|---------------------|---------------------|-----------------------|--|--|--|
| Туре | Input | Output | | | | |
| | V _M | V _M | V _X | | | |
| 74HC3G06 | $0.5 \times V_{CC}$ | $0.5 \times V_{CC}$ | 0.1 × V _{CC} | | | |
| 74HCT3G06 | 1.3 V | 1.3 V | 0.1 × V _{CC} | | | |



 R_T = Termination resistance should be equal to output impedance Z_0 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 10. Test data

| Туре | Input | | Load | | S1 position |
|-----------|------------------------|---------------------------------|-------|------|-------------------------------------|
| | VI | t _r , t _f | CL | RL | t _{PZL} , t _{PLZ} |
| 74HC3G06 | GND to V _{CC} | ≤ 6 ns | 50 pF | 1 kΩ | V _{CC} |
| 74HCT3G06 | GND to 3 V | ≤ 6 ns | 50 pF | 1 kΩ | V _{CC} |

12. Package outline

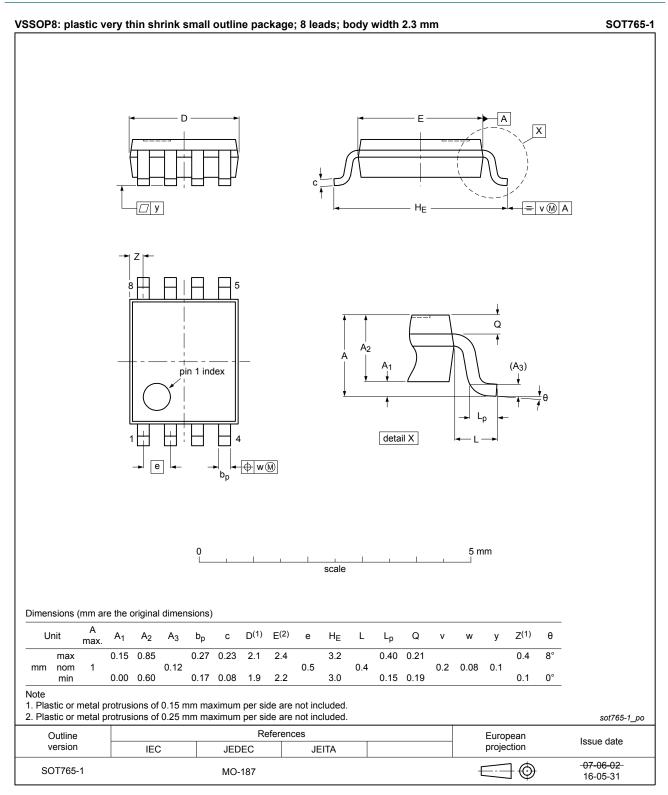


Fig. 7. Package outline SOT765-1 (VSSOP8)

13. Abbreviations

| Table 11. Abbreviations | | | | |
|-------------------------|---|--|--|--|
| Acronym | Description | | | |
| CMOS | Complementary Metal-Oxide Semiconductor | | | |
| DUT | Device Under Test | | | |
| ESD | ElectroStatic Discharge | | | |
| НВМ | Human Body Model | | | |
| MM | Machine Model | | | |
| TTL | Transistor-Transistor Logic | | | |

14. Revision history

| Table 12. Revision histor | У | | | | | |
|---------------------------|--|--|---------------|------------------|--|--|
| Document ID | Release date | Data sheet status | Change notice | Supersedes | | |
| 74HC_HCT3G06 v.5 | 20190501 | Product data sheet | - | 74HC_HCT3G06 v.4 | | |
| Modifications: | of Nexperia Legal texts Type numb Type numb | 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 74HC3G06DP and 74HCT3G06DP (SOT505-2) removed. Type numbers 74HC3G06GD and 74HCT3G06GD (SOT996-2) removed. Package outline drawing <u>SOT765-1</u> (VSSOP8) updated. | | | | |
| 74HC_HCT3G06 v.4 | 20131219 | Product data sheet | - | 74HC_HCT3G06 v.3 | | |
| Modifications: | For type nu XSON8. | For type numbers 74HC3G06GD and 74HCT3G06GD XSON8U has changed to XSON8. | | | | |
| 74HC_HCT3G06 v.3 | 20090511 | Product data sheet | - | 74HC_HCT3G06 v.2 | | |
| 74HC_HCT3G06 v.2 | 20031202 | Product specification | - | 74HC_HCT3G06 v.1 | | |
| 74HC_HCT3G06 v.1 | 20030515 | Product specification | - | - | | |

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| Document status [1][2] | Product status [3] | Definition |
|-----------------------------------|-----------------------|---|
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Product data sheet

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