74HC540; 74HCT540

Octal buffer/line driver; 3-state; inverting Rev. 3 — 21 January 2013

Product data sheet

1. **General description**

The 74HC540; 74HCT540 is an 8-bit inverting buffer/line driver with 3-state outputs. The device features two output enables (OE1 and OE2). A HIGH on OEn causes the outputs to assume a high-impedance OFF-state. 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.

- Inverting outputs
- Complies with JEDEC standard no. 7A
- Input levels:
 - ◆ For 74HC540: CMOS level
 - ◆ For 74HCT540: TTL level
- ESD protection:
 - ♦ HBM JESD22-A114F exceeds 2000 V
 - MM JESD22-A115-A exceeds 200 V
- Multiple package options
- Specified from -40 °C to +85 °C and from -40 °C to +125 °C

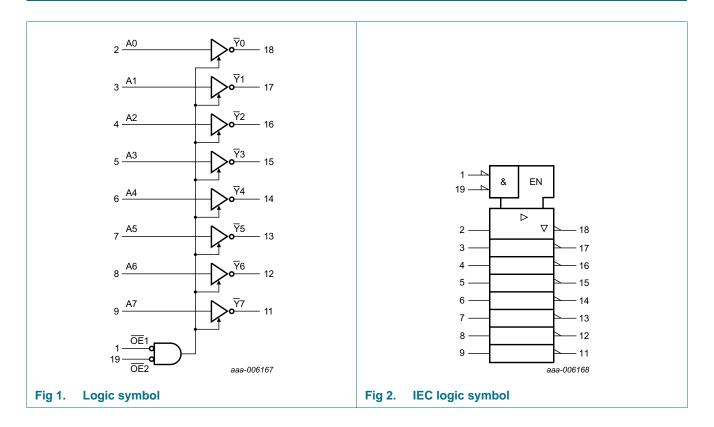
Ordering information 3.

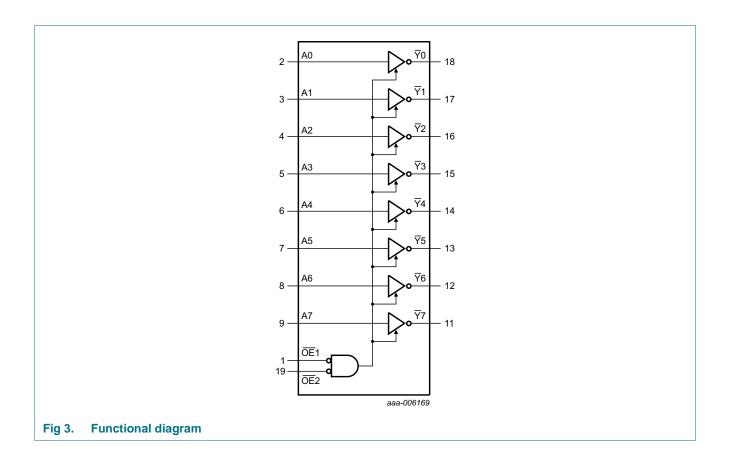
Table 1. **Ordering information**

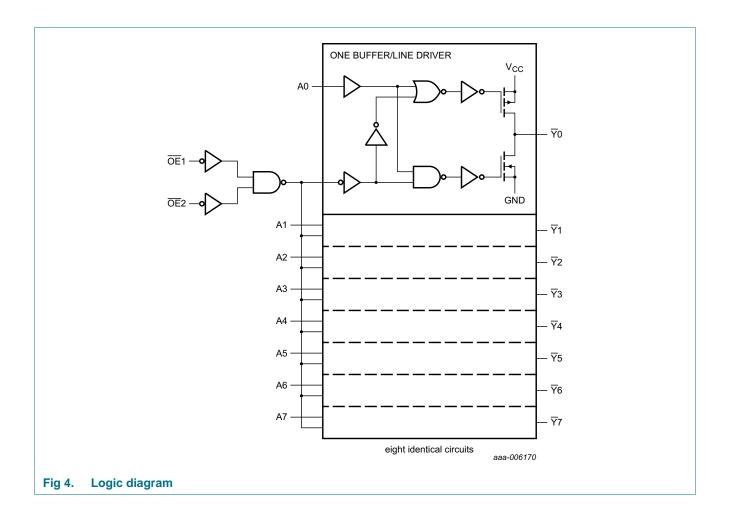
| Type number | Package | | | | | | | | | | | |
|-------------|------------------------|--------|--|----------|--|--|--|--|--|--|--|--|
| | Temperature range | Name | Description | Version | | | | | | | | |
| 74HC540N | -40 °C to +125 °C | DIP20 | plastic dual in-line package; 20 leads (300 mil) | SOT146-1 | | | | | | | | |
| 74HCT540N | | | | | | | | | | | | |
| 74HC540D | -40 °C to +125 °C SO20 | | plastic small outline package; 20 leads; | SOT163-1 | | | | | | | | |
| 74HCT540D | | | body width 7.5 mm | | | | | | | | | |
| 74HC540DB | –40 °C to +125 °C | SSOP20 | plastic shrink small outline package; 20 leads; | SOT339-1 | | | | | | | | |
| 74HCT540DB | | | body width 5.3 mm | | | | | | | | | |



4. Functional diagram

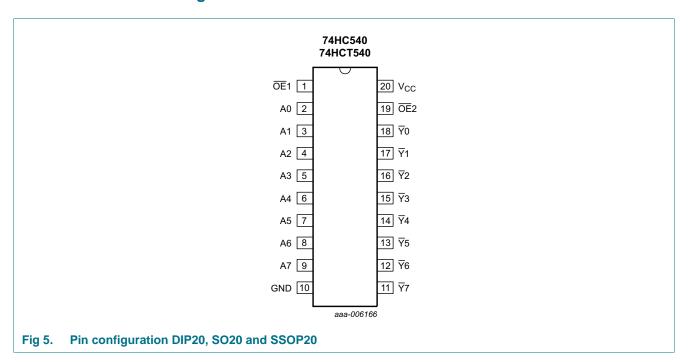






5. Pinning information

5.1 Pinning



5.2 Pin description

Table 2. Pin description

| | · iii doconpilon | |
|--------------------------------------|-------------------------------|----------------------------------|
| Symbol | Pin | Description |
| OE1 | 1 | output enable input (active LOW) |
| A0 to A7 | 2, 3, 4, 5, 6, 7, 8, 9 | data input |
| GND | 10 | ground (0 V) |
| \overline{Y} 0 to \overline{Y} 7 | 18, 17, 16, 15, 14, 13, 12, 1 | data output |
| OE ₂ | 19 | output enable input (active LOW) |
| V_{CC} | 20 | supply voltage |

6. Functional description

Table 3. Functional table[1]

| Control | | Input | Output |
|---------|-----|-------|--------|
| OE1 | OE2 | An | Yn |
| L | L | L | Н |
| L | L | Н | L |
| X | Н | X | Z |
| Н | X | X | Z |

[1] H = HIGH voltage level; L = LOW voltage level; X = don't care; Z = high-impedance OFF-state.

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7. Limiting values

Table 4. 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 | V |
| I _{IK} | input clamping current | $V_I < -0.5 \text{ V or } V_I > V_{CC} + 0.5 \text{ V}$ | <u>[1]</u> _ | ±20 | mA |
| I _{OK} | output clamping current | $V_O < -0.5 \text{ V or } V_O > V_{CC} + 0.5 \text{ V}$ | <u>[1]</u> - | ±20 | mA |
| Io | output current | $-0.5 \text{ V} < \text{V}_{\text{O}} < \text{V}_{\text{CC}} + 0.5 \text{ V}$ | - | ±35 | mA |
| I _{CC} | supply current | | - | 70 | mA |
| I _{GND} | ground current | | -70 | - | mA |
| T _{stg} | storage temperature | | –65 | +150 | °C |
| P _{tot} | total power dissipation | | [2] | | |
| | DIP20 | | - | 750 | mW |
| | SO20, SSOP20 | | - | 500 | mW |

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

8. Recommended operating conditions

Table 5. Recommended operating conditions

Voltages are referenced to GND (ground = 0 V)

| Symbol | Parameter | Conditions | 74HC | 540 | | 74HC | 74HCT540 | | | |
|---------------------|-------------------------------------|--------------------------|------|------|----------|------|----------|----------|------|--|
| | | | Min | Тур | Max | Min | Тур | Max | | |
| V_{CC} | supply voltage | | 2.0 | 5.0 | 6.0 | 4.5 | 5.0 | 5.5 | V | |
| V_{I} | 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 | |
| $\Delta t/\Delta V$ | input transition rise and fall rate | $V_{CC} = 2.0 \text{ V}$ | - | - | 625 | - | - | - | ns/V | |
| | | $V_{CC} = 4.5 \text{ V}$ | - | 1.67 | 139 | - | 1.67 | 139 | ns/V | |
| | | $V_{CC} = 6.0 \text{ V}$ | - | - | 83 | - | - | - | ns/V | |

^[2] For DIP20 packages: above 70 °C the value of P_{tot} derates linearly with 12 mW/K. For SO20 packages: above 70 °C the value of P_{tot} derates linearly with 8 mW/K. For SSOP20 packages: above 60 °C the value of P_{tot} derates linearly with 5.5 mW/K.

9. Static characteristics

Table 6. Static characteristics

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

| Symbol | Parameter | Conditions | Tai | _{mb} = 25 | °C | | - –40 °C 85 °C | | - –40 °C I 25 °C | Unit |
|-----------------|--------------------------|--|------|--------------------|------|------|-------------------|------|---------------------|------|
| | | | Min | Тур | Max | Min | Max | Min | Max | |
| 74HC54 | 0 | | | | | ı | | | ı | |
| V _{IH} | HIGH-level | V _{CC} = 2.0 V | 1.5 | 1.2 | - | 1.5 | - | 1.5 | - | V |
| | input voltage | V _{CC} = 4.5 V | 3.15 | 2.4 | - | 3.15 | - | 3.15 | - | V |
| | | $V_{CC} = 6.0 \text{ V}$ | 4.2 | 3.2 | - | 4.2 | - | 4.2 | - | V |
| V _{IL} | LOW-level | V _{CC} = 2.0 V | - | 8.0 | 0.5 | - | 0.5 | - | 0.5 | V |
| | input voltage | V _{CC} = 4.5 V | - | 2.1 | 1.35 | - | 1.35 | - | 1.35 | V |
| | | $V_{CC} = 6.0 \text{ V}$ | - | 2.8 | 1.8 | - | 1.8 | - | 1.8 | V |
| V _{OH} | HIGH-level | $V_I = V_{IH}$ or V_{IL} | | | | | | | | |
| | output voltage | $I_{O} = -20 \mu A; V_{CC} = 2.0 V$ | 1.9 | 2.0 | - | 1.9 | - | 1.9 | - | V |
| | | $I_{O} = -20 \mu A$; $V_{CC} = 4.5 V$ | 4.4 | 4.5 | - | 4.4 | - | 4.4 | - | V |
| | | $I_O = -20 \mu A$; $V_{CC} = 6.0 \text{ V}$ | 5.9 | 6.0 | - | 5.9 | - | 5.9 | - | V |
| | | $I_{O} = -6.0 \text{ mA}; V_{CC} = 4.5 \text{ V}$ | 3.98 | 4.32 | - | 3.84 | - | 3.7 | - | V |
| | | $I_{O} = -7.8 \text{ mA}; V_{CC} = 6.0 \text{ V}$ | 5.48 | 5.81 | - | 5.34 | - | 5.2 | - | V |
| V_{OL} | LOW-level | $V_I = V_{IH}$ or V_{IL} | | | | | | | | |
| | output voltage | $I_O = 20 \mu A; V_{CC} = 2.0 \text{ V}$ | - | 0 | 0.1 | - | 0.1 | - | 0.1 | V |
| | | $I_O = 20 \mu A; V_{CC} = 4.5 V$ | - | 0 | 0.1 | - | 0.1 | - | 0.1 | V |
| | | $I_O = 20 \mu A; V_{CC} = 6.0 \text{ V}$ | - | 0 | 0.1 | - | 0.1 | - | 0.1 | V |
| | | $I_O = 6.0 \text{ mA}; V_{CC} = 4.5 \text{ V}$ | - | 0.15 | 0.26 | - | 0.33 | - | 0.4 | V |
| | | $I_O = 7.8 \text{ mA}; V_{CC} = 6.0 \text{ V}$ | - | 0.16 | 0.26 | - | 0.33 | - | 0.4 | V |
| lı | input leakage current | $V_I = V_{CC}$ or GND; $V_{CC} = 6.0 \text{ V}$ | - | - | ±0.1 | - | ±1.0 | - | ±1.0 | μА |
| l _{oz} | OFF-state output current | per input pin; $V_I = V_{IH}$ or V_{IL} ; $V_O = V_{CC}$ or GND; other inputs at V_{CC} or GND; $V_{CC} = 6.0 \text{ V}$; $I_O = 0 \text{ A}$ | - | ±0.5 | - | ±5.0 | - | ±10 | - | μА |
| I _{CC} | supply current | $V_1 = V_{CC}$ or GND; $I_O = 0$ A; $V_{CC} = 6.0 \text{ V}$ | - | - | 8.0 | - | 80 | - | 160 | μА |
| C _I | input capacitance | | - | 3.5 | - | - | - | - | - | pF |
| 74HCT5 | 40 | | | | | | | | | |
| V _{IH} | HIGH-level input voltage | V _{CC} = 4.5 V to 5.5 V | 2.0 | 1.6 | - | 2.0 | - | 2.0 | - | V |
| V_{IL} | LOW-level input voltage | $V_{CC} = 4.5 \text{ V to } 5.5 \text{ V}$ | - | 1.2 | 8.0 | - | 0.8 | - | 0.8 | V |
| V _{ОН} | HIGH-level | $V_I = V_{IH}$ or V_{IL} ; $V_{CC} = 4.5 \text{ V}$ | | | | | | | | |
| | output voltage | $I_0 = -20 \mu A$ | 4.4 | 4.5 | - | 4.4 | - | 4.4 | - | V |
| | | $I_{O} = -6.0 \text{ mA}$ | 3.98 | 4.32 | - | 3.84 | - | 3.7 | - | V |
| | | | | | | | | | | |

 Table 6.
 Static characteristics ...continued

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

| Symbol | Parameter | Conditions | T _{ar} | _{nb} = 25 | °C | | -40 °C 85 °C | | -40 °C 125 °C | Unit |
|------------------|------------------------------|--|-----------------|--------------------|------|-----|-----------------|-----|------------------|------|
| | | | Min | Тур | Max | Min | Max | Min | Max | |
| V_{OL} | LOW-level | $V_I = V_{IH}$ or V_{IL} ; $V_{CC} = 4.5 \text{ V}$ | | | | | | | | |
| | output voltage | $I_O = 20 \mu A;$ | - | 0 | 0.1 | - | 0.1 | - | 0.1 | V |
| | | $I_O = 6.0 \text{ mA};$ | - | 0.16 | 0.26 | - | 0.33 | - | 0.4 | V |
| I _I | input leakage current | $V_I = V_{CC}$ or GND; $V_{CC} = 5.5 \text{ V}$ | - | - | ±0.1 | - | ±1.0 | - | ±1.0 | μΑ |
| I _{OZ} | OFF-state output current | per input pin; $V_I = V_{IH}$ or V_{IL} ; $V_O = V_{CC}$ or GND; other inputs at V_{CC} or GND; $V_{CC} = 5.5 \text{ V}$; $I_O = 0 \text{ A}$ | - | - | ±0.5 | - | ±5.0 | - | ±10 | μА |
| I _{CC} | supply current | $V_I = V_{CC}$ or GND; $I_O = 0$ A; $V_{CC} = 5.5 \text{ V}$ | - | - | 8.0 | - | 80 | - | 160 | μА |
| Δl _{CC} | additional supply current | per input pin; $I_O = 0$ A; $V_I = V_{CC} - 2.1$ V; other inputs at V_{CC} or GND; $V_{CC} = 4.5$ V to 5.5 V | | | | | | | | |
| | | An input | - | 140 | 504 | - | 630 | - | 686 | μΑ |
| | | OE1 input | - | 150 | 540 | - | 675 | - | 735 | μΑ |
| | | OE2 input | - | 100 | 360 | - | 450 | - | 490 | μΑ |
| C _I | input capacitance | | - | 3.5 | - | - | - | - | - | pF |

10. Dynamic characteristics

Table 7. Dynamic characteristics

 $GND = 0 \ V; \ C_L = 50 \ pF;$ for test circuit see <u>Figure 8</u>.

| Symbol | Parameter | Conditions | | Tan | _{nb} = 25 | °C | $T_{amb} = -40^{\circ}$ | C to +125 °C | Unit |
|------------------|-------------------|---|-----|-----|--------------------|-----|-------------------------|--------------|------|
| | | | | | Тур | Max | Max (85 °C) | Max (125 °C) | |
| 74HC540 | | ' | | | • | ' | | | |
| t _{pd} | propagation delay | An to Yn; see Figure 6 | [1] | | | | | | |
| | | V _{CC} = 2.0 V | | - | 30 | 100 | 125 | 150 | ns |
| | | V _{CC} = 4.5 V | | - | 11 | 20 | 25 | 30 | ns |
| | | $V_{CC} = 5.0 \text{ V}; C_L = 15 \text{ pF}$ | | - | 9 | - | - | - | ns |
| | | V _{CC} = 6.0 V | | - | 9 | 17 | 21 | 26 | ns |
| t _{en} | enable time | OEn to Yn; see Figure 7 | [1] | | | | | | |
| | | V _{CC} = 2.0 V | | - | 52 | 160 | 200 | 240 | ns |
| | | V _{CC} = 4.5 V | | - | 19 | 32 | 40 | 48 | ns |
| | | V _{CC} = 6.0 V | | - | 15 | 27 | 34 | 41 | ns |
| t _{dis} | disable time | OEn to Yn; see Figure 7 | [1] | | | | | | |
| | | V _{CC} = 2.0 V | | - | 61 | 160 | 200 | 240 | ns |
| | | V _{CC} = 4.5 V | | - | 22 | 32 | 40 | 48 | ns |
| | | $V_{CC} = 6.0 \text{ V}$ | | - | 18 | 27 | 34 | 41 | ns |

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 Table 7.
 Dynamic characteristics

 $GND = 0 \ V; \ C_L = 50 \ pF;$ for test circuit see <u>Figure 8</u>.

| Symbol | Parameter | Conditions | | Tan | _{nb} = 25 | °С | T _{amb} = -40 ° | C to +125 °C | Unit |
|------------------|-------------------------------|---|------------|-----|--------------------|-----|--------------------------|--------------|------|
| | | | | Min | Тур | Max | Max (85 °C) | Max (125 °C) | |
| t _t | transition time | see Figure 6 | [2] | | | | | | |
| | | $V_{CC} = 2.0 \text{ V}$ | | - | 14 | 60 | 75 | 90 | ns |
| | | $V_{CC} = 4.5 \text{ V}$ | | - | 5 | 12 | 15 | 18 | ns |
| | | $V_{CC} = 6.0 \text{ V}$ | | - | 4 | 10 | 13 | 15 | ns |
| C_{PD} | power dissipation capacitance | per package; V _I = GND to V _{CC} | [3] | - | 39 | - | - | - | pF |
| 74HCT54 | 10 | | | | | | | | |
| t _{pd} | propagation delay | An to Yn; see Figure 6 | <u>[1]</u> | | | | | | |
| | | $V_{CC} = 4.5 \text{ V}$ | | - | 13 | 24 | 30 | 36 | ns |
| | | $V_{CC} = 5.0 \text{ V}; C_L = 15 \text{ pF}$ | | - | 11 | - | - | - | ns |
| t _{en} | enable time | OEn to Yn; see Figure 7 | <u>[1]</u> | | | | | | |
| | | $V_{CC} = 4.5 \text{ V}$ | | - | 22 | 35 | 44 | 53 | ns |
| t _{dis} | disable time | OEn to Yn; see Figure 7 | <u>[1]</u> | | | | | | |
| | | $V_{CC} = 4.5 \text{ V}$ | | - | 23 | 35 | 44 | 53 | ns |
| t _t | transition time | V _{CC} = 4.5 V; see <u>Figure 6</u> | [2] | - | 5 | 12 | 15 | 18 | ns |
| C_{PD} | power dissipation capacitance | per package; V _I = GND to V _{CC} – 1.5 V | [3] | - | 44 | - | - | - | pF |

^[1] t_{pd} is the same as t_{PLH} and t_{PHL} .

 t_{en} is the same as t_{PZL} and $t_{\text{PZH}}.$

 t_{dis} is the same as t_{PLZ} and t_{PHZ} .

[3] C_{PD} is used to determine the dynamic power dissipation (P_D in μW):

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

 f_i = input frequency in MHz;

 f_o = output frequency in MHz;

C_L = output load capacitance in pF;

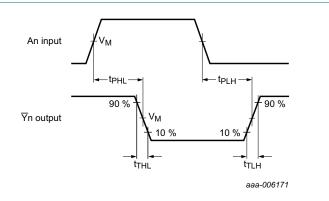
V_{CC} = supply voltage in V;

N = number of inputs switching;

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

^[2] t_t is the same as t_{THL} and t_{TLH} .

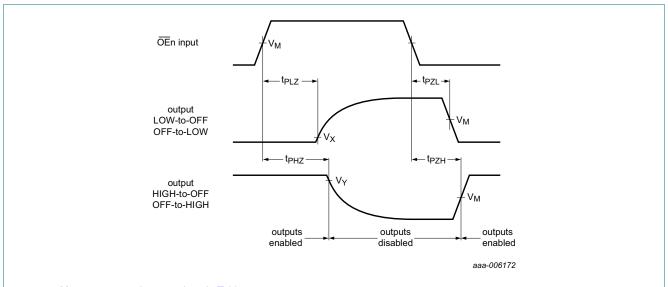
11. Waveforms



Measurement points are given in Table 8.

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

Fig 6. Input to output propagation delays



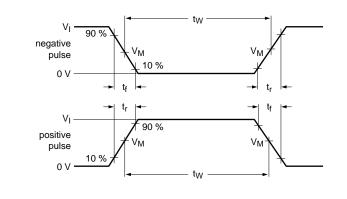
Measurement points are given in Table 8.

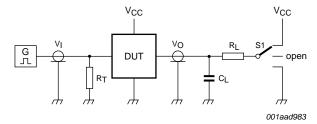
 V_{OL} and V_{OH} are typical voltage output levels that occur with the output load.

Fig 7. 3-state enable and disable times

Table 8. Measurement points

| Туре | Input | Output | | |
|----------|--------------------|--------------------|--------------------|--------------------|
| | V _M | V _M | V _X | V _Y |
| 74HC540 | 0.5V _{CC} | 0.5V _{CC} | 0.1V _{CC} | 0.9V _{CC} |
| 74HCT540 | 1.3 V | 1.3 V | 0.1V _{CC} | 0.9V _{CC} |





Test data is given in Table 9.

Definitions test circuit:

 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 8. Test circuit for measuring switching times

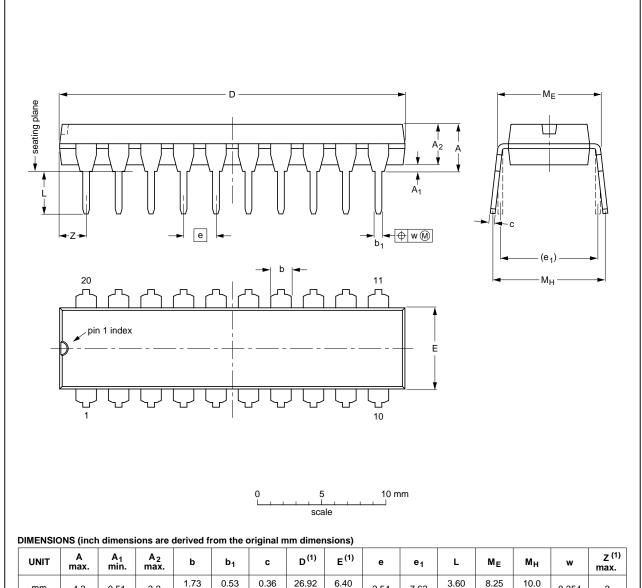
Table 9. Test data

| Туре | Input | | Load | | S1 position | S1 position | | | |
|----------|----------|---------------------------------|----------------|----------------|-------------------------------------|-------------------------------------|-------------------------------------|--|--|
| | VI | t _r , t _f | C _L | R _L | t _{PHL} , t _{PLH} | t _{PZH} , t _{PHZ} | t _{PZL} , t _{PLZ} | | |
| 74HC540 | V_{CC} | 6 ns | 15 pF, 50 pF | 1 kΩ | open | GND | V _{CC} | | |
| 74HCT540 | 3 V | 6 ns | 15 pF, 50 pF | 1 kΩ | open | GND | V _{CC} | | |

12. Package outline

DIP20: plastic dual in-line package; 20 leads (300 mil)

SOT146-1



| UNIT | A max. | A ₁ min. | A ₂ max. | b | b ₁ | С | D ⁽¹⁾ | E ⁽¹⁾ | е | e ₁ | L | ME | Мн | w | Z ⁽¹⁾ max. |
|--------|-----------|------------------------|------------------------|----------------|----------------|----------------|------------------|------------------|------|----------------|--------------|--------------|--------------|-------|--------------------------|
| mm | 4.2 | 0.51 | 3.2 | 1.73 1.30 | 0.53 0.38 | 0.36 0.23 | 26.92 26.54 | 6.40 6.22 | 2.54 | 7.62 | 3.60 3.05 | 8.25 7.80 | 10.0 8.3 | 0.254 | 2 |
| inches | 0.17 | 0.02 | 0.13 | 0.068 0.051 | 0.021 0.015 | 0.014 0.009 | 1.060 1.045 | 0.25 0.24 | 0.1 | 0.3 | 0.14 0.12 | 0.32 0.31 | 0.39 0.33 | 0.01 | 0.078 |

Note

1. Plastic or metal protrusions of 0.25 mm (0.01 inch) maximum per side are not included.

| OUTLINE | | REFER | EUROPEAN | IOOUE DATE | | | |
|----------|-----|--------|----------|------------|------------|---------------------------------|--|
| VERSION | IEC | JEDEC | JEITA | | PROJECTION | ISSUE DATE | |
| SOT146-1 | | MS-001 | SC-603 | | | 99-12-27 03-02-13 | |

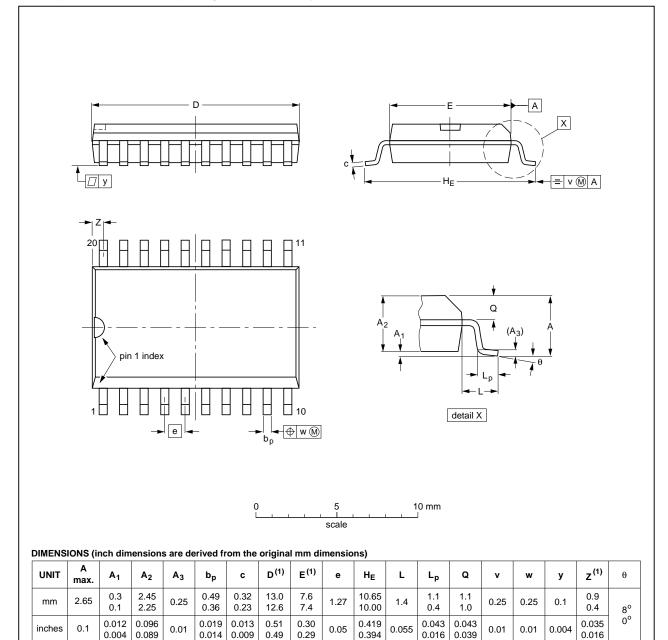
Fig 9. Package outline SOT146-1 (DIP20)

74HC_HCT540

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SO20: plastic small outline package; 20 leads; body width 7.5 mm

SOT163-1



Note

1. Plastic or metal protrusions of 0.15 mm (0.006 inch) maximum per side are not included.

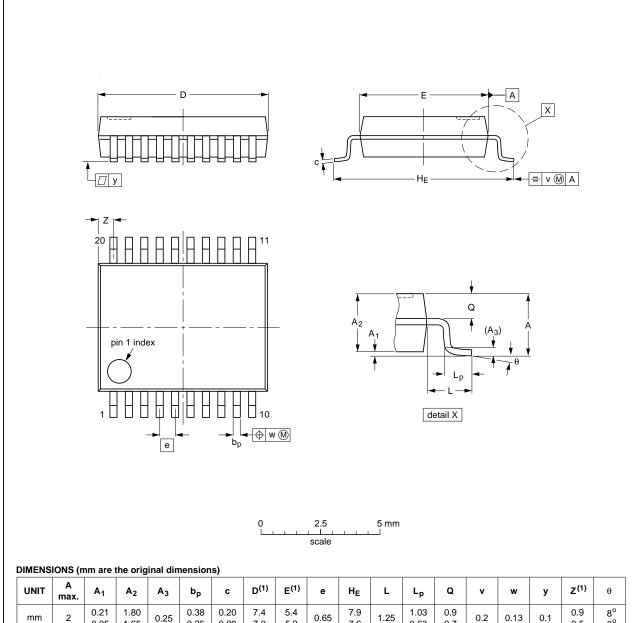
| OUTLINE | | REFER | EUROPEAN | ISSUE DATE | | |
|----------|--------|--------|----------|------------|------------|---------------------------------|
| VERSION | IEC | JEDEC | JEITA | | PROJECTION | ISSUE DATE |
| SOT163-1 | 075E04 | MS-013 | | | | 99-12-27 03-02-19 |

Fig 10. Package outline SOT163-1 (SO20)

74HC_HCT540

SSOP20: plastic shrink small outline package; 20 leads; body width 5.3 mm

SOT339-1



| UNIT | A max. | A ₁ | A ₂ | A ₃ | bp | С | D ⁽¹⁾ | E ⁽¹⁾ | е | HE | L | Lp | Q | v | w | у | Z ⁽¹⁾ | θ |
|------|-----------|----------------|----------------|----------------|--------------|--------------|------------------|------------------|------|------------|------|--------------|------------|-----|------|-----|------------------|----------|
| mm | 2 | 0.21 0.05 | 1.80 1.65 | 0.25 | 0.38 0.25 | 0.20 0.09 | 7.4 7.0 | 5.4 5.2 | 0.65 | 7.9 7.6 | 1.25 | 1.03 0.63 | 0.9 0.7 | 0.2 | 0.13 | 0.1 | 0.9 0.5 | 8° 0° |

Note

1. Plastic or metal protrusions of 0.2 mm maximum per side are not included.

| OUTLINE | | REFER | EUROPEAN | IOOUE DATE | | | |
|----------|-----|--------|----------|------------|------------|---------------------------------|--|
| VERSION | IEC | JEDEC | JEITA | | PROJECTION | ISSUE DATE | |
| SOT339-1 | | MO-150 | | | | 99-12-27 03-02-19 | |

Fig 11. Package outline SOT339-1 (SSOP20)

74HC_HCT540

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13. Abbreviations

Table 10. Abbreviations

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

14. Revision history

Table 11. Revision history

| | - | | | | | | |
|---------------------|---|-----------------------------|------------------|---------------------|--|--|--|
| Document ID | Release date | Data sheet status | Change notice | Supersedes | | | |
| 74HC_HCT540 v.3 | 20130121 | Product data sheet | - | 74HC_HCT540_CNV v.2 | | | |
| Modifications: | The format of this data sheet has been redesigned to comply with the new identity guidelines of NXP Semiconductors. | | | | | | |
| | Legal texts h | ave been adapted to the new | company name whe | re appropriate. | | | |
| 74HC_HCT540_CNV v.2 | 19970905 | 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. |
| Preliminary [short] data sheet | Qualification | This document contains data from the preliminary specification. |
| Product [short] data sheet | Production | This document contains the product specification. |

- [1] 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 URL http://www.nxp.com.

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74HC540; 74HCT540

Octal buffer/line driver; 3-state; inverting

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