

74HC258

Quad 2-input multiplexer; 3-state; inverting

Rev. 04 — 14 April 2008

Product data sheet

1. General description

The 74HC258 is a high-speed Si-gate CMOS device and is pin compatible with low power Schottky TTL (LSTTL). The 74HC258 is specified in compliance with JEDEC standard no. 7A.

The 74HC258 has four identical 2-input multiplexers with 3-state outputs, which select 4 bits of data from two sources and is controlled by a common data select input (S).

The data inputs from source 0 (1I0 to 4I0) are selected when input S is LOW and the data inputs from source 1 (1I1 to 4I1) are selected when S is HIGH.

Data appears at the outputs (1 \bar{Y} to 4 \bar{Y}) in inverted form from the select inputs.

The 74HC258 is the logic implementation of a 4-pole, 2-position switch, where the position of the switch is determined by the logic levels applied to S. The outputs are forced to a high-impedance OFF-state when \overline{OE} is HIGH.

The logic equations for the outputs are:

$$1\bar{Y} = \overline{\overline{OE} \times (1I1 \times S + 1I0 \times \bar{S})}$$

$$2\bar{Y} = \overline{\overline{OE} \times (2I1 \times S + 2I0 \times \bar{S})}$$

$$3\bar{Y} = \overline{\overline{OE} \times (3I1 \times S + 3I0 \times \bar{S})}$$

$$4\bar{Y} = \overline{\overline{OE} \times (4I1 \times S + 4I0 \times \bar{S})}$$

The 74HC258 is identical to the 74HC257 but has inverting outputs.

2. Features

- 3-state outputs interface directly with system bus
- Low-power dissipation
- Inverting data path
- Complies with JEDEC standard no. 7A
- ESD protection:
 - ◆ HBM JESD22-A114E exceeds 2000 V
 - ◆ MM JESD22-A115-A exceeds 200 V
- Multiple package options
- Specified from -40°C to $+85^{\circ}\text{C}$ and from -40°C to $+125^{\circ}\text{C}$.

3. Ordering information

Table 1. Ordering information

| Type number | Package | Temperature range | Name | Description | Version |
|-------------|---------|-------------------|--------|---|----------|
| 74HC258N | | −40 °C to +125 °C | DIP16 | plastic dual in-line package; 16 leads (300 mil) | SOT38-4 |
| 74HC258D | | −40 °C to +125 °C | SO16 | plastic small outline package; 16 leads; body width 3.9 mm | SOT109-1 |
| 74HC258DB | | −40 °C to +125 °C | SSOP16 | plastic shrink small outline package; 16 leads; body width 5.3 mm | SOT338-1 |

4. Functional diagram

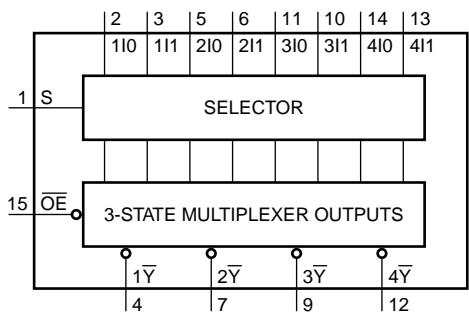


Fig 1. Functional diagram

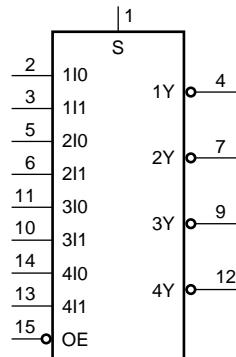


Fig 2. Logic symbol

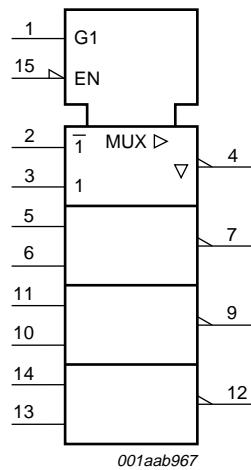


Fig 3. IEC logic symbol

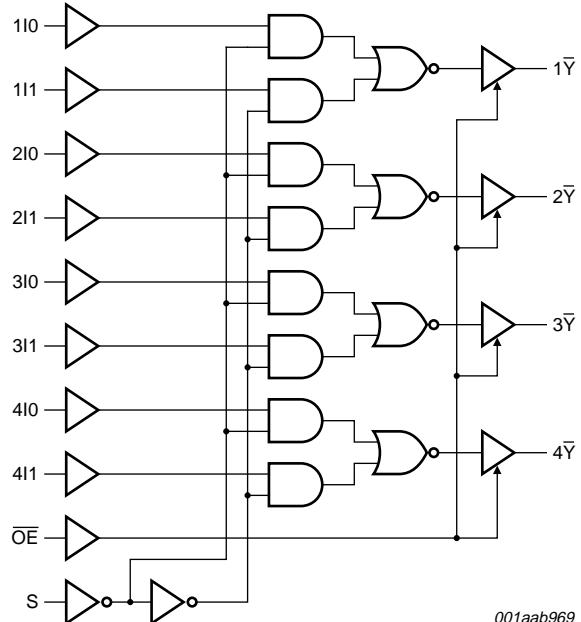
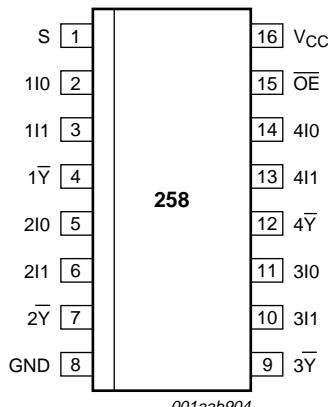


Fig 4. Logic diagram

5. Pinning information

5.1 Pinning



001aab904

Fig 5. Pin configuration

5.2 Pin description

Table 2. Pin description

| Symbol | Pin | Description |
|-----------------|-----|--|
| S | 1 | common data select input |
| 1I0 | 2 | data input 1 from source 0 |
| 1I1 | 3 | data input 1 from source 1 |
| 1Y | 4 | 3-state multiplexer output 1; inverted |
| 2I0 | 5 | data input 2 from source 0 |
| 2I1 | 6 | data input 2 from source 1 |
| 2Y | 7 | 3-state multiplexer output 2; inverted |
| GND | 8 | ground (0 V) |
| 3Y | 9 | 3-state multiplexer output 3; inverted |
| 3I1 | 10 | data input 3 from source 1 |
| 3I0 | 11 | data input 3 from source 0 |
| 4Y | 12 | 3-state multiplexer output 4; inverted |
| 4I1 | 13 | data input 4 from source 1 |
| 4I0 | 14 | data input 4 from source 0 |
| OE | 15 | output enable input (active LOW) |
| V _{CC} | 16 | positive supply voltage |

6. Functional description

Table 3. Function table^[1]

| Control | | Input | | Output |
|---------|---|-------|-----|--------|
| OE | S | nI0 | nI1 | nY |
| H | X | X | X | Z |
| L | L | L | X | H |
| L | L | H | X | L |
| L | H | X | L | H |
| L | H | X | H | L |

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

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 | +7.0 | V |
| I _{IK} | input clamping current | V _I < -0.5 V or V _I > V _{CC} + 0.5 V | [1] - | ±20 | mA |
| I _{OK} | output clamping current | V _O < -0.5 V or V _O > V _{CC} + 0.5 V | [1] - | ±20 | mA |
| I _O | output current | V _O = -0.5 V to V _{CC} + 0.5 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 | T _{amb} = -40 °C to +125 °C | | | |
| | | DIP16 package | [2] - | 750 | mW |
| | | SO16 package | [3] - | 500 | mW |
| | | SSOP16 package | [4] - | 500 | mW |

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

[2] P_{tot} derates linearly with 12 mW/K above 70 °C.

[3] P_{tot} derates linearly with 8 mW/K above 70 °C.

[4] P_{tot} derates linearly with 5.5 mW/K above 60 °C.

8. Recommended operating conditions

Table 5. Recommended operating conditions

| Symbol | Parameter | Conditions | Min | Typ | Max | Unit |
|---------------------|-------------------------------------|------------------|-----|------|----------|------|
| V_{CC} | supply voltage | | 2.0 | 5.0 | 6.0 | V |
| V_I | input voltage | | 0 | - | V_{CC} | V |
| V_O | output voltage | | 0 | - | V_{CC} | V |
| T_{amb} | ambient temperature | | -40 | - | +125 | °C |
| $\Delta t/\Delta V$ | input transition rise and fall rate | $V_{CC} = 2.0$ V | - | - | 625 | ns |
| | | $V_{CC} = 4.5$ V | - | 1.67 | 139 | ns |
| | | $V_{CC} = 6.0$ V | - | - | 83 | ns |

9. Static characteristics

Table 6. Static characteristics

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

| Symbol | Parameter | Conditions | 25 °C | | | −40 °C to +85 °C | | −40 °C to +125 °C | | Unit |
|----------|---------------------------|---|-------|------|-----------|------------------|-----------|-------------------|-----------|---------|
| | | | Min | Typ | Max | Min | Max | Min | Max | |
| V_{IH} | HIGH-level input voltage | $V_{CC} = 2.0$ V | 1.5 | 1.2 | - | 1.5 | - | 1.5 | - | V |
| | | $V_{CC} = 4.5$ V | 3.15 | 2.4 | - | 3.15 | - | 3.15 | - | V |
| | | $V_{CC} = 6.0$ V | 4.2 | 3.2 | - | 4.2 | - | 4.2 | - | V |
| V_{IL} | LOW-level input voltage | $V_{CC} = 2.0$ V | - | 0.8 | 0.5 | - | 0.5 | - | 0.5 | V |
| | | $V_{CC} = 4.5$ V | - | 2.1 | 1.35 | - | 1.35 | - | 1.35 | V |
| | | $V_{CC} = 6.0$ V | - | 2.8 | 1.8 | - | 1.8 | - | 1.8 | V |
| V_{OH} | HIGH-level output voltage | $V_I = V_{IH}$ or V_{IL} | | | | | | | | |
| | | $I_O = -20 \mu A; V_{CC} = 2.0$ 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 |
| | | $I_O = -20 \mu A; V_{CC} = 6.0$ V | 5.9 | 6.0 | - | 5.9 | - | 5.9 | - | V |
| | | $I_O = -6 mA; V_{CC} = 4.5$ V | 3.98 | 4.32 | - | 3.84 | - | 3.7 | - | V |
| | | $I_O = -7.8 mA; V_{CC} = 6.0$ V | 5.48 | 5.81 | - | 5.34 | - | 5.2 | - | V |
| V_{OL} | LOW-level output voltage | $V_I = V_{IH}$ or V_{IL} | | | | | | | | |
| | | $I_O = 20 \mu A; V_{CC} = 2.0$ 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 |
| | | $I_O = 20 \mu A; V_{CC} = 6.0$ V | - | 0 | 0.1 | - | 0.1 | - | 0.1 | V |
| | | $I_O = 6 mA; V_{CC} = 4.5$ V | - | 0.15 | 0.26 | - | 0.33 | - | 0.4 | V |
| | | $I_O = 7.8 mA; V_{CC} = 6.0$ V | - | 0.16 | 0.26 | - | 0.33 | - | 0.4 | V |
| I_I | input leakage current | $V_I = V_{CC}$ or GND; $V_{CC} = 6.0$ V | - | - | ± 0.1 | - | ± 1.0 | - | ± 1.0 | μA |
| I_{OZ} | OFF-state output current | $V_I = V_{IH}$ or V_{IL} ; $V_{CC} = 6.0$ V; $V_O = V_{CC}$ or GND; $I_O = 0 A$ | - | - | ± 0.5 | - | ± 5.0 | - | ± 10 | μA |
| I_{CC} | supply current | $V_I = V_{CC}$ or GND; $I_O = 0 A$; $V_{CC} = 6.0$ V | - | - | 8 | - | 80 | - | 160 | μA |
| C_I | input capacitance | | - | 3.5 | - | - | - | - | - | pF |

10. Dynamic characteristics

Table 7. Dynamic characteristics

GND = 0 V; for test circuit see [Figure 8](#).

| Symbol | Parameter | Conditions | 25 °C | | | -40 °C to +125 °C | | Unit |
|-----------|-------------------------------|--|-------|-----|-----|-------------------|--------------|------|
| | | | Min | Typ | Max | Max (85 °C) | Max (125 °C) | |
| t_{pd} | propagation delay | nl0, nl1to n \bar{Y} ; see Figure 6 [1] | | | | | | |
| | | $V_{CC} = 2.0$ V | - | 30 | 95 | 120 | 145 | ns |
| | | $V_{CC} = 4.5$ V | - | 11 | 19 | 24 | 29 | ns |
| | | $V_{CC} = 6.0$ V | - | 9 | 16 | 20 | 25 | ns |
| | | $V_{CC} = 5.0$ V; $C_L = 15$ pF | - | 9 | - | - | - | ns |
| | | S to n \bar{Y} ; see Figure 6 | | | | | | |
| | | $V_{CC} = 2.0$ V | - | 47 | 140 | 175 | 210 | ns |
| | | $V_{CC} = 4.5$ V | - | 17 | 28 | 35 | 42 | ns |
| | | $V_{CC} = 6.0$ V | - | 14 | 24 | 30 | 36 | ns |
| | | $V_{CC} = 5.0$ V; $C_L = 15$ pF | - | 14 | - | - | - | ns |
| t_{en} | enable time | \bar{OE} to n \bar{Y} ; see Figure 7 [2] | | | | | | |
| | | $V_{CC} = 2.0$ V | - | 39 | 140 | 175 | 210 | ns |
| | | $V_{CC} = 4.5$ V | - | 14 | 28 | 35 | 42 | ns |
| | | $V_{CC} = 6.0$ V | - | 11 | 24 | 30 | 36 | ns |
| t_{dis} | disable time | \bar{OE} to n \bar{Y} ; see Figure 7 [3] | | | | | | |
| | | $V_{CC} = 2.0$ V | - | 55 | 150 | 190 | 225 | ns |
| | | $V_{CC} = 4.5$ V | - | 20 | 30 | 38 | 45 | ns |
| | | $V_{CC} = 6.0$ V | - | 16 | 26 | 33 | 38 | ns |
| t_t | transition time | see Figure 6 [4] | | | | | | |
| | | $V_{CC} = 2.0$ V | - | 14 | 60 | 75 | 90 | ns |
| | | $V_{CC} = 4.5$ V | - | 5 | 12 | 15 | 18 | ns |
| | | $V_{CC} = 6.0$ V | - | 4 | 10 | 13 | 15 | ns |
| C_{PD} | power dissipation capacitance | per multiplexer; $V_I = \text{GND to } V_{CC}$ | [5] | - | 55 | - | - | pF |

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

[2] t_{en} is the same as t_{PZH} and t_{PZL} .

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

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

[5] 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;

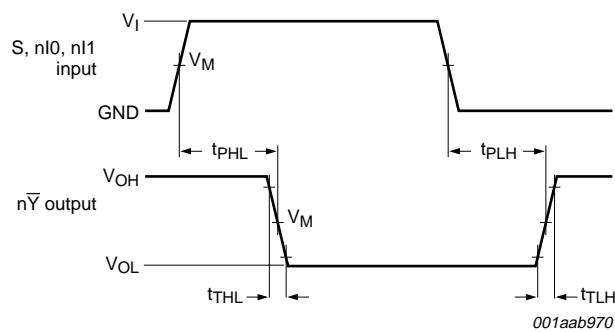
C_L = output load capacitance in pF;

V_{CC} = supply voltage in V;

N = number of inputs switching;

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

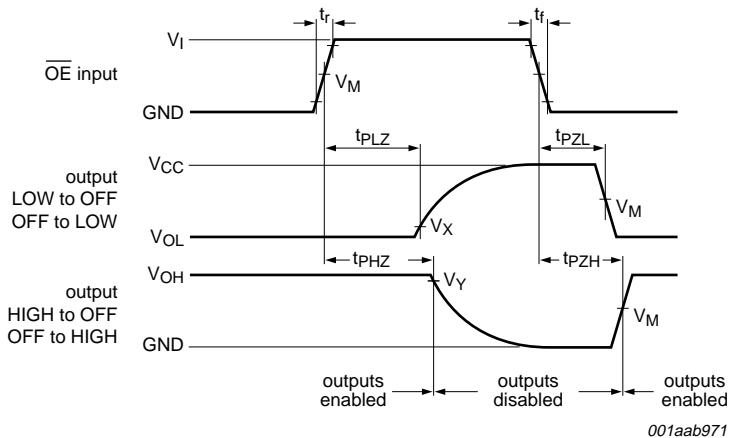
11. Waveforms



Measurement points are given in [Table 8](#).

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

Fig 6. Input (nI0, nI1 and S) to output (nY) propagation delays and output transition times



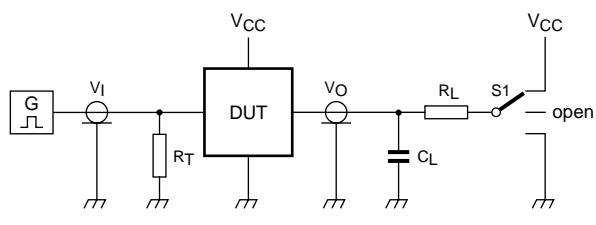
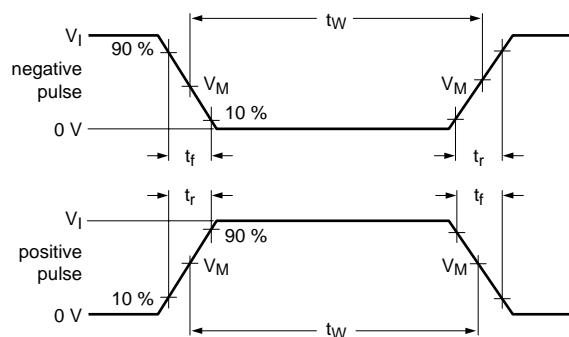
Measurement points are given in [Table 8](#).

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

Fig 7. Enable and disable times

Table 8. Measurement points

| Input | Output | | |
|---------------------|---------------------|---------------------|---------------------|
| V_M | V_M | V_X | V_Y |
| $0.5 \times V_{CC}$ | $0.5 \times V_{CC}$ | $0.1 \times V_{CC}$ | $0.9 \times V_{CC}$ |



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

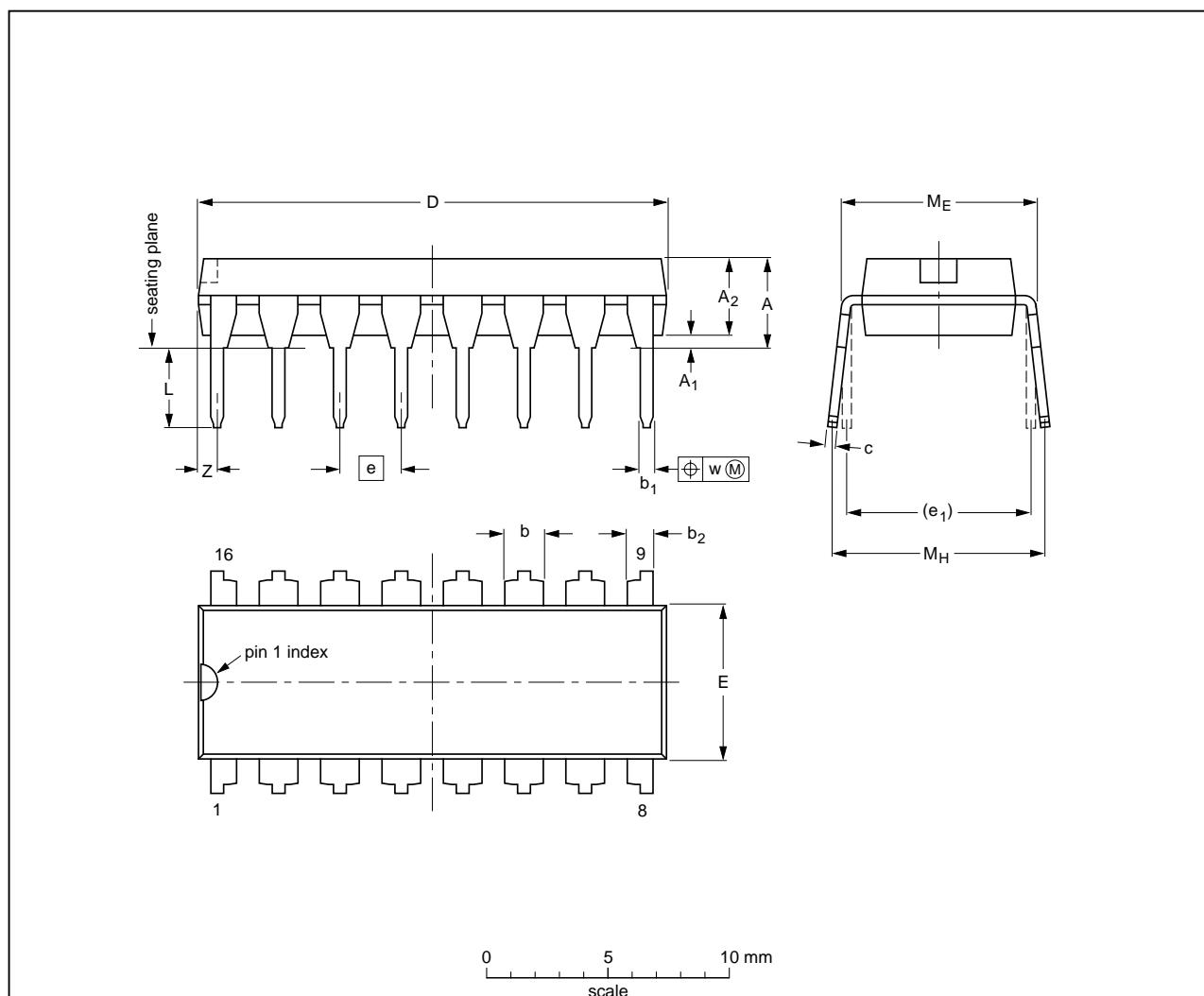
Table 9. Test data

| Supply voltage | Input | | Load | | S1 | | | |
|----------------|----------|-------|-------------|-------|--------------|--------------------|--------------------|--------------------|
| | V_{CC} | V_I | $t_r = t_f$ | C_L | R_L | t_{PZL}, t_{PLZ} | t_{PZH}, t_{PHZ} | t_{PHL}, t_{PLH} |
| 2.0 V | V_{CC} | | 6 ns | 50 pF | 1 k Ω | V_{CC} | GND | open |
| 4.5 V | V_{CC} | | 6 ns | 50 pF | 1 k Ω | V_{CC} | GND | open |
| 6.0 V | V_{CC} | | 6 ns | 50 pF | 1 k Ω | V_{CC} | GND | open |
| 5.0 V | V_{CC} | | 6 ns | 15 pF | 1 k Ω | V_{CC} | GND | open |

12. Package outline

DIP16: plastic dual in-line package; 16 leads (300 mil)

SOT38-4



DIMENSIONS (inch dimensions are derived from the original mm dimensions)

| UNIT | A max. | A ₁ min. | A ₂ max. | b | b ₁ | b ₂ | c | D ⁽¹⁾ | E ⁽¹⁾ | e | e ₁ | L | M _E | M _H | w | Z ⁽¹⁾ max. |
|--------|-----------|------------------------|------------------------|----------------|----------------|----------------|----------------|------------------|------------------|------|----------------|--------------|----------------|----------------|-------|--------------------------|
| mm | 4.2 | 0.51 | 3.2 | 1.73 1.30 | 0.53 0.38 | 1.25 0.85 | 0.36 0.23 | 19.50 18.55 | 6.48 6.20 | 2.54 | 7.62 | 3.60 3.05 | 8.25 7.80 | 10.0 8.3 | 0.254 | 0.76 |
| inches | 0.17 | 0.02 | 0.13 | 0.068 0.051 | 0.021 0.015 | 0.049 0.033 | 0.014 0.009 | 0.77 0.73 | 0.26 0.24 | 0.1 | 0.3 | 0.14 0.12 | 0.32 0.31 | 0.39 0.33 | 0.01 | 0.03 |

Note

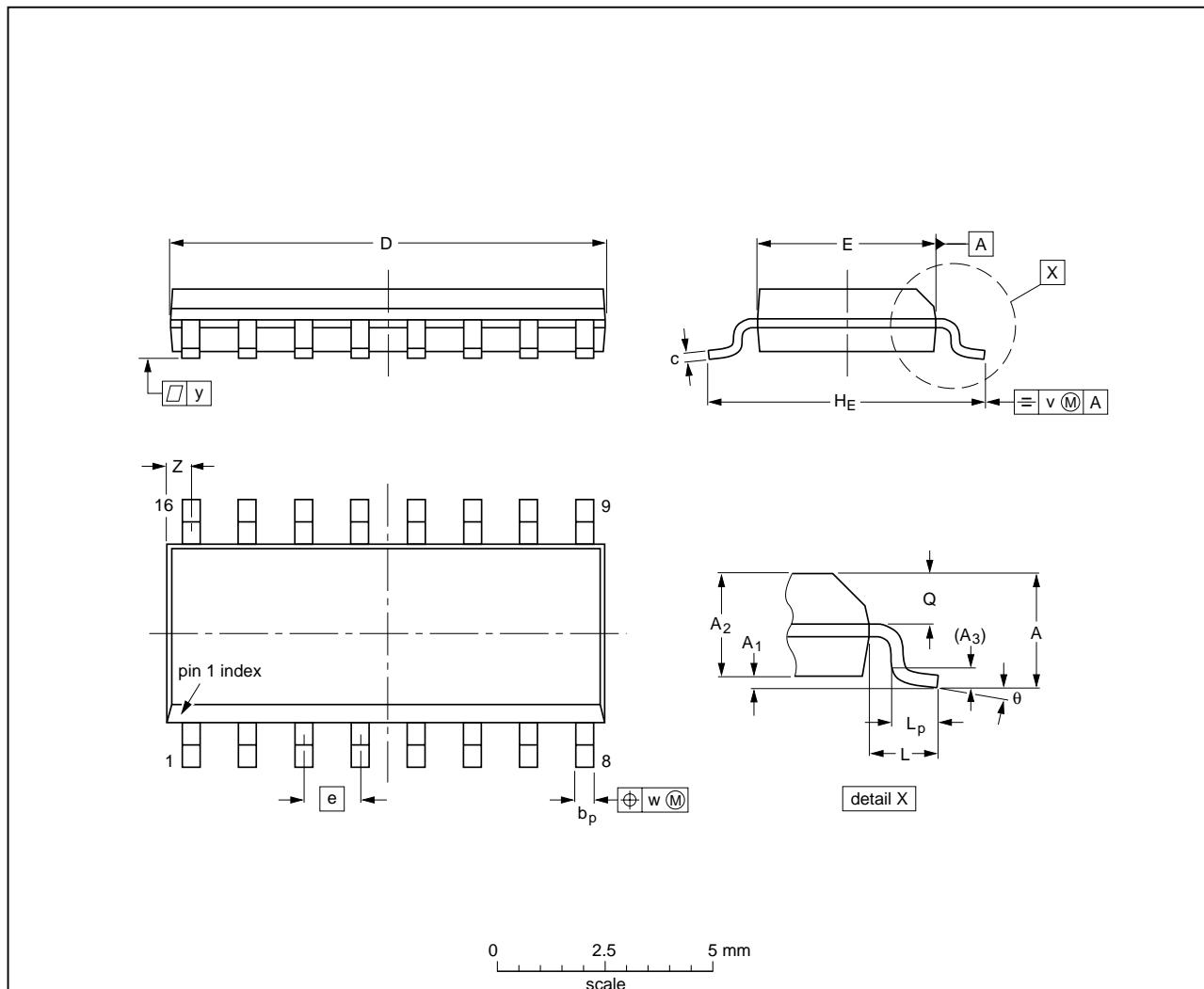
1. Plastic or metal protrusions of 0.25 mm (0.01 inch) maximum per side are not included.

| OUTLINE VERSION | REFERENCES | | | | EUROPEAN PROJECTION | ISSUE DATE |
|--------------------|------------|-------|-------|--|------------------------|----------------------|
| | IEC | JEDEC | JEITA | | | |
| SOT38-4 | | | | | | 95-01-14 03-02-13 |

Fig 9. Package outline SOT38-4 (DIP16)

SO16: plastic small outline package; 16 leads; body width 3.9 mm

SOT109-1



DIMENSIONS (inch dimensions are derived from the original mm dimensions)

| DIMENSIONS (inch dimensions are derived from the original mm dimensions) | | | | | | | | | | | | | | | | | | |
|--|-----------|----------------|----------------|----------------|----------------|------------------|------------------|------------------|------|----------------|-------|----------------|----------------|------|------|-------|------------------|----------|
| UNIT | A max. | A ₁ | A ₂ | A ₃ | b _p | c | D ⁽¹⁾ | E ⁽¹⁾ | e | H _E | L | L _p | Q | v | w | y | Z ⁽¹⁾ | θ |
| mm | 1.75 | 0.25 0.10 | 1.45 1.25 | 0.25 | 0.49 0.36 | 0.25 0.19 | 10.0 9.8 | 4.0 3.8 | 1.27 | 6.2 5.8 | 1.05 | 1.0 0.4 | 0.7 0.6 | 0.25 | 0.25 | 0.1 | 0.7 0.3 | 8° 0° |
| inches | 0.069 | 0.010 0.004 | 0.057 0.049 | 0.01 | 0.019 0.014 | 0.0100 0.0075 | 0.39 0.38 | 0.16 0.15 | 0.05 | 0.244 0.228 | 0.041 | 0.039 0.016 | 0.028 0.020 | 0.01 | 0.01 | 0.004 | 0.028 0.012 | |

Note

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

| OUTLINE VERSION | REFERENCES | | | | EUROPEAN PROJECTION | ISSUE DATE |
|-----------------|------------|--------|-------|--|---|----------------------|
| | IEC | JEDEC | JEITA | | | |
| SOT109-1 | 076E07 | MS-012 | | |   | 99-12-27 03-02-19 |

Fig 10. Package outline SOT109-1 (SO16)

SSOP16: plastic shrink small outline package; 16 leads; body width 5.3 mm

SOT338-1

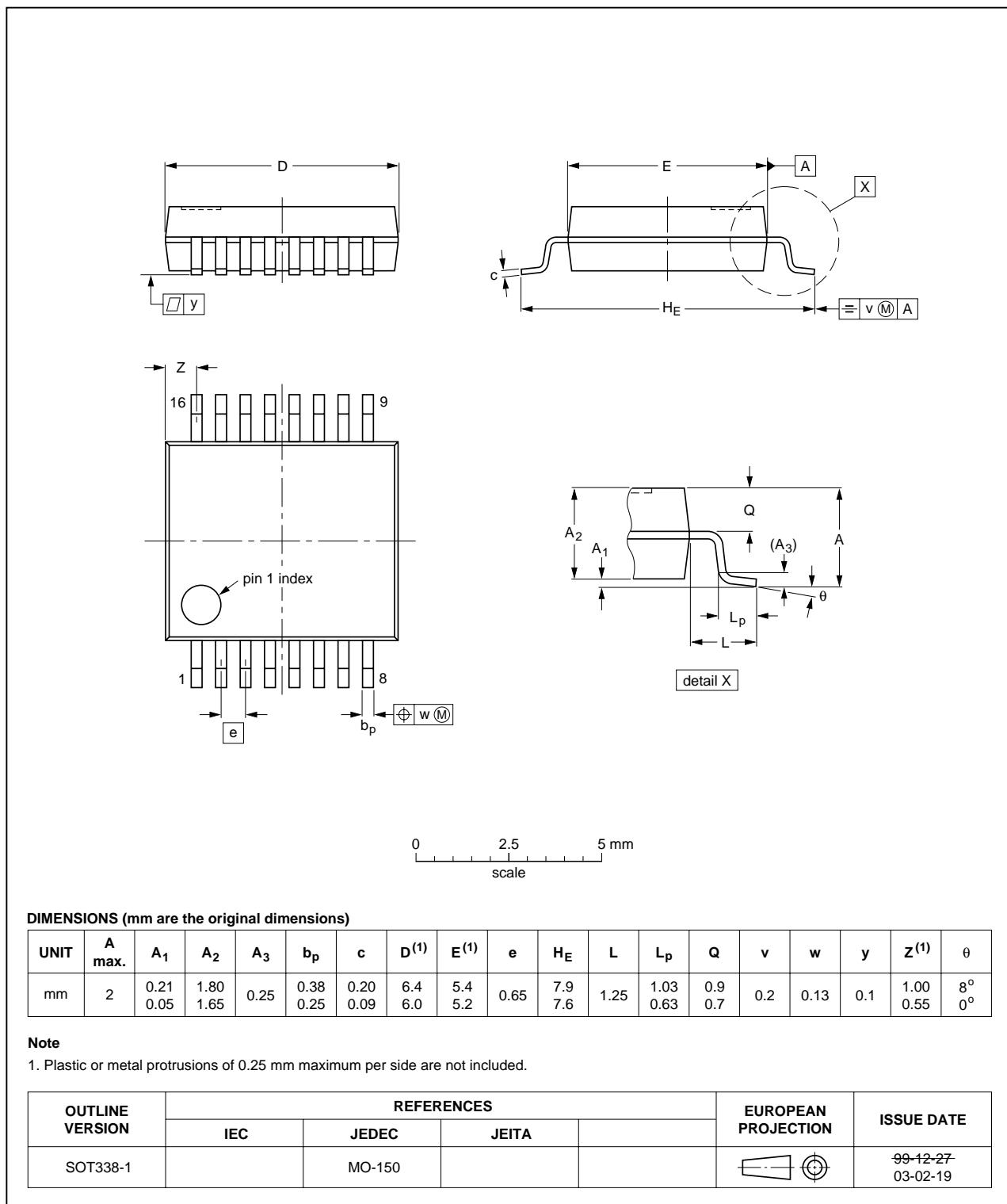


Fig 11. Package outline SOT338-1 (SSOP16)

13. Abbreviations

Table 10. Abbreviations

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

14. Revision history

Table 11. Revision history

| Document ID | Release date | Data sheet status | Change notice | Supersedes |
|-------------------|---|-----------------------|---------------|-------------------|
| 74HC258_4 | 20080414 | Product data sheet | - | 74HC258_3 |
| Modifications: | <ul style="list-style-type: none"> The format of this data sheet has been redesigned to comply with the new identity guidelines of NXP Semiconductors. Legal texts have been adapted to the new company name where appropriate. Pin assignment corrected for pins 10, 11, 13 and 14 in Figure 1, Figure 2, Figure 5 and Table 2. | | | |
| 74HC258_3 | 20041112 | Product data sheet | - | 74HC_HCT258_CNV_2 |
| 74HC_HCT258_CNV_2 | 19990902 | Product specification | - | 74HC_HCT258_1 |
| 74HC_HCT258_1 | 19901201 | 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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