74AHC257-Q100; 74AHCT257-Q100

Quad 2-input multiplexer; 3-state

Rev. 2 — 30 August 2023

Product data sheet

1. General description

The 74AHC257-Q100 is a quad 2-input multiplexer with 3-state outputs. Inputs are overvoltage tolerant. This feature allows the use of these devices as translators in mixed voltage environments.

This product has been qualified to the Automotive Electronics Council (AEC) standard Q100 (Grade 1) and is suitable for use in automotive applications.

2. Features and benefits

- Automotive product qualification in accordance with AEC-Q100 (Grade 1)
 - Specified from -40 °C to +85 °C and from -40 °C to +125 °C
- Balanced propagation delays
- · All inputs have Schmitt-trigger actions
- · Non-inverting data path
- Overvoltage tolerant inputs to 5.5 V
- · Input levels:
 - For 74AHC257-Q100: CMOS level
 - For 74AHCT257-Q100: TTL level
- · High noise immunity
- CMOS low power dissipation
- Latch-up performance exceeds 100 mA per JESD 78 Class II Level A
- ESD protection:
 - HBM: ANSI/ESDA/JEDEC JS-001 class 2 exceeds 2000 V
 - CDM: ANSI/ESDA/JEDEC JS-002 class C3 exceeds 1000 V

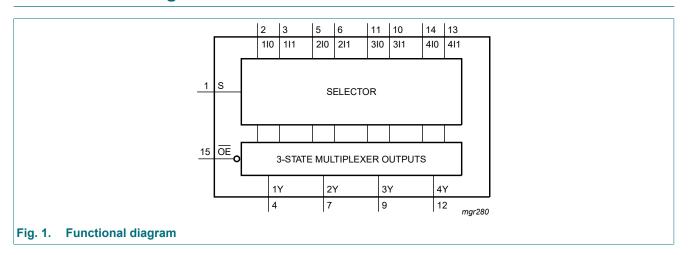
3. Ordering information

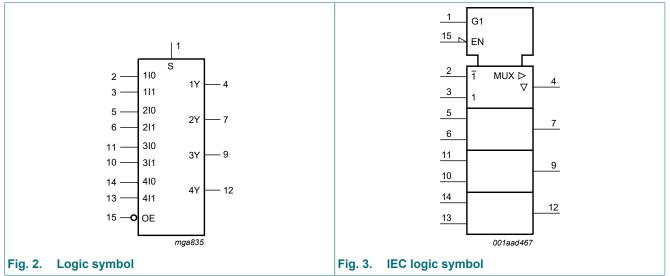
Table 1. Ordering information

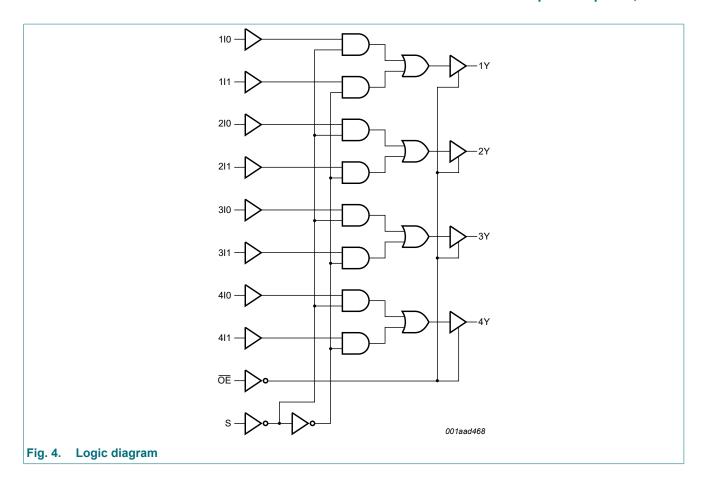
| Type number | Package | | | |
|-------------------------------------|-------------------|---------|--|----------|
| | Temperature range | Name | Description | Version |
| 74AHC257D-Q100 74AHCT257D-Q100 | -40 °C to +125 °C | SO16 | plastic small outline package; 16 leads; body width 3.9 mm | SOT109-1 |
| 74AHC257PW-Q100 74AHCT257PW-Q100 | -40 °C to +125 °C | TSSOP16 | plastic thin shrink small outline package; 16 leads; body width 4.4 mm | SOT403-1 |



4. Functional diagram

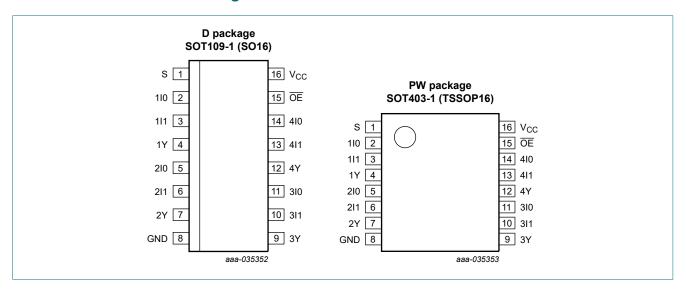






5. Pinning information

5.1. Pinning



5.2. Pin description

Table 2. Pin description

| Symbol | Pin | Description |
|-----------------|-----|----------------------------------|
| S | 1 | common data select input |
| 110 | 2 | data input from source 0 |
| 111 | 3 | data input from source 1 |
| 1Y | 4 | multiplexer output |
| 210 | 5 | data input from source 0 |
| 211 | 6 | data input from source 1 |
| 2Y | 7 | multiplexer output |
| GND | 8 | ground (0 V) |
| 3Y | 9 | multiplexer output |
| 311 | 10 | data input from source 1 |
| 310 | 11 | data input from source 0 |
| 4Y | 12 | multiplexer output |
| 411 | 13 | data input from source 1 |
| 410 | 14 | data input from source 0 |
| ŌĒ | 15 | output enable input (active LOW) |
| V _{CC} | 16 | supply voltage |

6. Functional description

Table 3. Function table

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

| Control | | Input | | Output | |
|---------|---|-------|-----|--------|--|
| OE | S | nI0 | nl1 | nY | |
| Н | X | Х | Х | Z | |
| L | Н | Х | L | L | |
| | | X | Н | Н | |
| | L | L | Х | L | |
| | | Н | X | Н | |

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 |
| VI | input voltage | | | -0.5 | +7.0 | V |
| I _{IK} | input clamping current | V _I < -0.5 V | [1] | -20 | - | mA |
| I _{OK} | output clamping current | $V_{O} < -0.5 \text{ V or } V_{O} > V_{CC} + 0.5 \text{ V}$ | [1] | -20 | +20 | mA |
| Io | output current | $V_{O} = -0.5 \text{ V to } (V_{CC} + 0.5 \text{ V})$ | | -25 | +25 | mA |
| I _{CC} | supply current | | | - | +75 | mA |
| I _{GND} | ground current | | | -75 | - | mA |
| T _{stg} | storage temperature | | | -65 | +150 | °C |
| P _{tot} | total power dissipation | T _{amb} = -40 °C to +125 °C | [2] | - | 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. Operating conditions

| Symbol | Parameter | Conditions | Min | Тур | Max | Unit |
|------------------|-------------------------------------|----------------------------------|-----|-----|-----------------|------|
| 74AHC257 | '-Q100 | | | | | |
| V _{CC} | supply voltage | | 2.0 | 5.0 | 5.5 | V |
| VI | input voltage | | 0 | - | 5.5 | V |
| Vo | output voltage | | 0 | - | V _{CC} | V |
| T _{amb} | ambient temperature | | -40 | +25 | +125 | °C |
| Δt/ΔV | input transition rise and fall rate | V _{CC} = 3.0 V to 3.6 V | - | - | 100 | ns/V |
| | | V _{CC} = 4.5 V to 5.5 V | - | - | 20 | ns/V |
| 74AHCT2 | 57-Q100 | | | | | ' |
| V _{CC} | supply voltage | | 4.5 | 5.0 | 5.5 | V |
| V _I | input voltage | | 0 | - | 5.5 | V |
| Vo | output voltage | | 0 | - | V _{CC} | V |
| T _{amb} | ambient temperature | | -40 | +25 | +125 | °C |
| Δt/ΔV | input transition rise and fall rate | V _{CC} = 4.5 V to 5.5 V | - | - | 20 | ns/V |

^[2] For SOT109-1 (SO16) package: P_{tot} derates linearly with 12.4 mW/K above 110 °C. For SOT403-1 (TSSOP16) package: P_{tot} derates linearly with 8.5 mW/K above 91 °C.

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 t | Unit | |
|-----------------|---|--|------|-------|-------|--------|-----------|----------|-------|----|
| | | | Min | Тур | Max | Min | Max | Min | Max | |
| 74AHC2 | 57-Q100 | | | | | | | · | | |
| V _{IH} | HIGH-level | V _{CC} = 2.0 V | 1.5 | - | - | 1.5 | - | 1.5 | - | V |
| | input voltage | V _{CC} = 3.0 V | 2.1 | - | - | 2.1 | - | 2.1 | - | V |
| | | V _{CC} = 5.5 V | 3.85 | - | - | 3.85 | - | 3.85 | - | V |
| V _{IL} | LOW-level | V _{CC} = 2.0 V | - | - | 0.5 | - | 0.5 | - | 0.5 | V |
| | input voltage | V _{CC} = 3.0 V | - | - | 0.9 | - | 0.9 | - | 0.9 | V |
| | | V _{CC} = 5.5 V | - | - | 1.65 | - | 1.65 | - | 1.65 | V |
| V _{OH} | HIGH-level | $V_I = V_{IH}$ or V_{IL} | | | | | | | | |
| | output voltage | I _O = -50 μA; V _{CC} = 2.0 V | 1.9 | 2.0 | - | 1.9 | - | 1.9 | - | V |
| | | I_{O} = -50 μ A; V_{CC} = 3.0 V | 2.9 | 3.0 | - | 2.9 | - | 2.9 | - | V |
| | | I _O = -50 μA; V _{CC} = 4.5 V | 4.4 | 4.5 | - | 4.4 | - | 4.4 | - | V |
| | | $I_O = -4.0 \text{ mA}; V_{CC} = 3.0 \text{ V}$ | 2.58 | - | - | 2.48 | - | 2.40 | - | V |
| | I _O = -8.0 mA; V _{CO} | | 3.94 | - | - | 3.80 | - | 3.70 | - | V |
| V _{OL} | LOW-level | $V_I = V_{IH}$ or V_{IL} | | | | | | | | |
| | output voltage | I _O = 50 μA; V _{CC} = 2.0 V | - | 0 | 0.1 | - | 0.1 | - | 0.1 | V |
| | | I _O = 50 μA; V _{CC} = 3.0 V | - | 0 | 0.1 | - | 0.1 | - | 0.1 | V |
| | | I _O = 50 μA; V _{CC} = 4.5 V | - | 0 | 0.1 | - | 0.1 | - | 0.1 | V |
| | | $I_O = 4.0 \text{ mA}; V_{CC} = 3.0 \text{ V}$ | - | - | 0.36 | - | 0.44 | - | 0.55 | V |
| | | $I_O = 8.0 \text{ mA}; V_{CC} = 4.5 \text{ V}$ | - | - | 0.36 | - | 0.44 | - | 0.55 | V |
| I _I | input leakage current | V _I = 5.5 V or GND; V _{CC} = 0 V to 5.5 V | - | - | 0.1 | - | 1.0 | - | 2.0 | μA |
| l _{OZ} | OFF-state output current | $V_I = V_{IH}$ or V_{IL} ; $V_O = V_{CC}$ or GND; $V_{CC} = 5.5 \text{ V}$ | - | - | ±0.25 | - | ±2.5 | - | ±10.0 | μA |
| I _{CC} | supply current | $V_I = V_{CC}$ or GND; $I_O = 0$ A; $V_{CC} = 5.5 \text{ V}$ | - | - | 4.0 | - | 40 | - | 80 | μA |
| C _I | input capacitance | V _I = V _{CC} or GND | - | 3 | 10 | - | 10 | - | 10 | pF |
| Co | output capacitance | | - | 4 | - | - | - | - | - | pF |
| 74AHCT | 257-Q100 | | | | | | | | | |
| V _{IH} | HIGH-level input voltage | V _{CC} = 4.5 V to 5.5 V | 2.0 | - | - | 2.0 | - | 2.0 | - | V |
| V _{IL} | LOW-level input voltage | V _{CC} = 4.5 V to 5.5 V | - | - | 0.8 | - | 0.8 | - | 0.8 | V |
| V _{OH} | HIGH-level | $V_I = V_{IH}$ or V_{IL} ; $V_{CC} = 4.5 \text{ V}$ | | | | | | | | |
| | output voltage | Ι _Ο = -50 μΑ | 4.4 | 4.5 | - | 4.4 | - | 4.4 | - | V |
| | | I _O = -8.0 mA | 3.94 | - | - | 3.80 | - | 3.70 | - | V |
| V _{OL} | LOW-level | $V_I = V_{IH}$ or V_{IL} ; $V_{CC} = 4.5 \text{ V}$ | | | | | | | | |
| | output voltage | Ι _Ο = 50 μΑ | - | 0 | 0.1 | - | 0.1 | - | 0.1 | V |
| | | I _O = 8.0 mA | - | - | 0.36 | - | 0.44 | - | 0.55 | V |

| Symbol | Parameter | Conditions | | 25 °C | | -40 °C | to +85 °C | -40 °C t | o +125 °C | Unit |
|------------------|---------------------------|--|-----|-------|-------|--------|-----------|----------|-----------|------|
| | | | Min | Тур | Max | Min | Max | Min | Max | |
| l _l | input leakage current | V _I = 5.5 V or GND; V _{CC} = 0 V to 5.5 V | - | - | 0.1 | - | 1.0 | - | 2.0 | μA |
| I _{OZ} | | $V_I = V_{IH}$ or V_{IL} ; $V_O = V_{CC}$ or GND; $V_{CC} = 5.5 \text{ V}$ | - | - | ±0.25 | - | ±2.5 | - | ±10.0 | μA |
| I _{CC} | supply current | $V_I = V_{CC}$ or GND; $I_O = 0$ A; $V_{CC} = 5.5 \text{ V}$ | - | - | 4.0 | - | 40 | - | 80 | μA |
| ΔI _{CC} | additional supply current | per input pin; $V_I = V_{CC} - 2.1 \text{ V};$ other pins at V_{CC} or GND; $I_O = 0 \text{ A}; V_{CC} = 4.5 \text{ V} \text{ to } 5.5 \text{ V}$ | - | - | 1.35 | - | 1.5 | - | 1.5 | mA |
| Cı | input capacitance | V _I = V _{CC} or GND | - | 3 | 10 | - | 10 | - | 10 | pF |
| Co | output capacitance | | - | 4 | - | - | - | - | - | pF |

10. Dynamic characteristics

Table 7. Dynamic characteristics

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

| Symbol | Parameter | Conditions | | 25 °C | | -40 °C 1 | to +85 °C | -40 °C t | Unit | |
|-----------------|-------------|----------------------------------|-----|---------|------|----------|-----------|----------|------|----|
| | | | Min | Typ [1] | Max | Min | Max | Min | Max | |
| 74AHC2 | 57-Q100 | | | | | | | | | |
| t _{pd} | propagation | nl0, nl1 to nY; see Fig. 5 [2] | | | | | | | | |
| | delay | V _{CC} = 3.0 V to 3.6 V | | | | | | | | |
| | | C _L = 15 pF | - | 4.2 | 9.3 | 1.0 | 11.0 | 1.0 | 12.0 | ns |
| | | C _L = 50 pF | - | 6.0 | 12.8 | 1.0 | 14.5 | 1.0 | 16.0 | ns |
| | | V _{CC} = 4.5 V to 5.5 V | | | | | | | | |
| | | C _L = 15 pF | - | 2.9 | 5.9 | 1.0 | 7.0 | 1.0 | 7.5 | ns |
| | | C _L = 50 pF | - | 4.2 | 7.9 | 1.0 | 9.0 | 1.0 | 11.5 | ns |
| | | S to nY; see <u>Fig. 5</u> [2] | | | | | | | | |
| | | V _{CC} = 3.0 V to 3.6 V | | | | | | | | |
| | | C _L = 15 pF | - | 5.2 | 11.0 | 1.0 | 13.0 | 1.0 | 14.0 | ns |
| | | C _L = 50 pF | - | 7.4 | 14.5 | 1.0 | 16.5 | 1.0 | 18.5 | ns |
| | | V _{CC} = 4.5 V to 5.5 V | | | | | | | | |
| | | C _L = 15 pF | - | 3.5 | 6.8 | 1.0 | 8.0 | 1.0 | 8.5 | ns |
| | | C _L = 50 pF | - | 5.0 | 8.8 | 1.0 | 10.0 | 1.0 | 12.5 | ns |
| t _{en} | enable time | OE to nY; see Fig. 6 [3] | | | | | | | | |
| | | V _{CC} = 3.0 V to 3.6 V | | | | | | | | |
| | | C _L = 15 pF | - | 4.5 | 10.5 | 1.0 | 12.5 | 1.0 | 13.5 | ns |
| | | C _L = 50 pF | - | 6.4 | 14.0 | 1.0 | 16.0 | 1.0 | 17.5 | ns |
| | | V _{CC} = 4.5 V to 5.5 V | | | | | | | | |
| | | C _L = 15 pF | - | 3.2 | 6.8 | 1.0 | 8.0 | 1.0 | 8.5 | ns |
| | | C _L = 50 pF | - | 4.5 | 8.8 | 1.0 | 10.0 | 1.0 | 12.5 | ns |

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| Symbol | Parameter | Conditions | | | 25 °C | | -40 °C | to +85 °C | -40 °C t | Unit | |
|-----------------------------------|--------------------------|---|-----|-----|---------|------|--------|-----------|----------|------|----|
| | | | | Min | Typ [1] | Max | Min | Max | Min | Max | |
| t _{dis} | disable time | OE to nY; see Fig. 6 | [4] | | | | | | | | |
| | | V _{CC} = 3.0 V to 3.6 V | | | | | | | | | |
| | | C _L = 15 pF | | - | 5.1 | 9.5 | 1.0 | 11.0 | 1.0 | 11.5 | ns |
| | | C _L = 50 pF | | - | 7.2 | 12.0 | 1.0 | 13.5 | 1.0 | 14.5 | ns |
| | | V _{CC} = 4.5 V to 5.5 V | | | | | | | | | |
| | | C _L = 15 pF | | - | 3.4 | 6.5 | 1.0 | 7.0 | 1.0 | 8.5 | ns |
| | | C _L = 50 pF | | - | 4.9 | 7.9 | 1.0 | 9.0 | 1.0 | 9.5 | ns |
| C _{PD} power dissipation | | f_i = 1 MHz; V_I = GND to V_{CC} | [5] | | | | | | | | |
| | capacitance | 4 outputs switching via input S | | - | 45 | - | - | - | - | - | pF |
| | | 1 output switching via input l | | - | 15 | - | - | - | - | - | pF |
| 74AHCT | 257-Q100; V _C | c = 4.5 V to 5.5 V | | | | | | | <u>'</u> | | |
| t _{pd} | propagation delay | nI0, nI1 to nY; see Fig. 5 | [2] | | | | | | | | |
| | | C _L = 15 pF | | - | 3.7 | 6.5 | 1.0 | 8.0 | 1.0 | 9.0 | ns |
| | | C _L = 50 pF | | - | 4.9 | 8.5 | 1.0 | 10.0 | 1.0 | 11.0 | ns |
| | | S to nY; see Fig. 5 | [2] | | | | | | | | |
| | | C _L = 15 pF | | - | 5.1 | 9.0 | 1.0 | 10.5 | 1.0 | 11.5 | ns |
| | | C _L = 50 pF | | - | 6.4 | 10.5 | 1.0 | 12.5 | 1.0 | 13.5 | ns |
| t _{en} | enable time | OE to nY; see Fig. 6 | [3] | | | | | | | | |
| | | C _L = 15 pF | | - | 3.9 | 8.0 | 1.0 | 9.0 | 1.0 | 10.0 | ns |
| | | C _L = 50 pF | | - | 5.1 | 10.0 | 1.0 | 11.0 | 1.0 | 12.0 | ns |
| t _{dis} | disable time | OE to nY; see Fig. 6 | [4] | | | | | | | | |
| | | C _L = 15 pF | | - | 4.5 | 7.5 | 1.0 | 8.0 | 1.0 | 8.5 | ns |
| | | C _L = 50 pF | | - | 6.5 | 9.5 | 1.0 | 10.5 | 1.0 | 11.5 | ns |
| C _{PD} | power dissipation | f_i = 1 MHz; V_I = GND to V_{CC} | [5] | | | | | | | | |
| | capacitance | 4 outputs switching via input S | | - | 51 | - | - | - | - | - | pF |
| | | 1 output switching via input l | | - | 15 | - | - | - | - | - | pF |

- [1] Typical values are measured at nominal supply voltage (V_{CC} = 3.3 V and V_{CC} = 5.0 V).
- [2] [3] t_{pd} is the same as t_{PLH} and t_{PHL} .
- t_{en} is the same as t_{PZL} and t_{PZH} .
- ten is the same as t_{PLZ} and t_{PLZ}.
 t_{dis} is the same as t_{PLZ} and t_{PHZ}.
 C_{PD} is used to determine the dynamic power dissipation (P_D in μW).
 P_D = C_{PD} × V_{CC}² × f_i × N + Σ(C_L × V_{CC}² × 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; $\Sigma (C_L \times V_{CC}^{\ 2} \times f_o) = \text{sum of the outputs}.$

10.1. Waveforms and test circuit

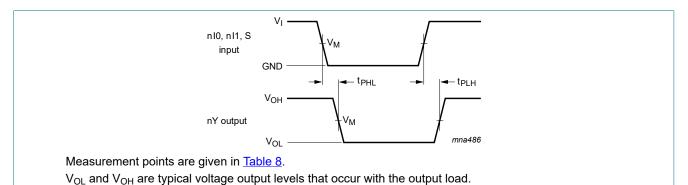
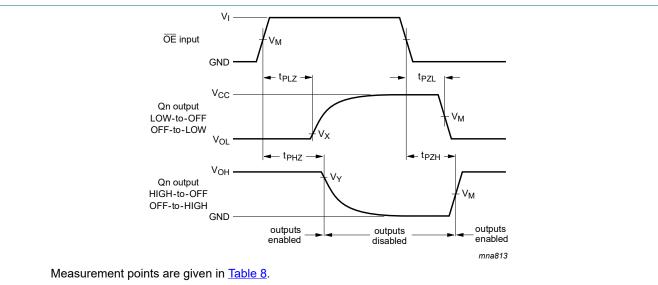


Fig. 5. Data inputs and common data select input to output propagation delays

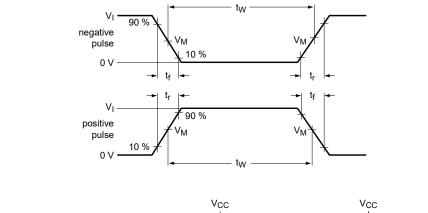


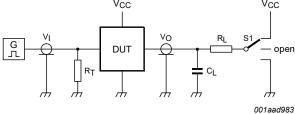
V_{OL} and V_{OH} are typical voltage output levels that occur with the output load.

Fig. 6. Enable and disable times

Table 8. Measurement points

| Туре | Input | nput Output | | | | | | |
|----------------|-----------------------|-----------------------|-------------------------|-------------------------|--|--|--|--|
| | V _M | V _M | V _X | V _Y | | | | |
| 74AHC257-Q100 | 0.5 × V _{CC} | 0.5 × V _{CC} | V _{OL} + 0.3 V | V _{OH} - 0.3 V | | | | |
| 74AHCT257-Q100 | 1.5 V | 0.5 × V _{CC} | V _{OL} + 0.3 V | V _{OH} - 0.3 V | | | | |





Test data is given in Table 9.

Definitions test circuit:

 R_T = termination resistance should be equal to output impedance Z_o of the pulse generator;

C_L = load capacitance including jig and probe capacitance;

R_L = load resistance;

S1 = test selection switch.

Fig. 7. Test circuit for measuring switching times

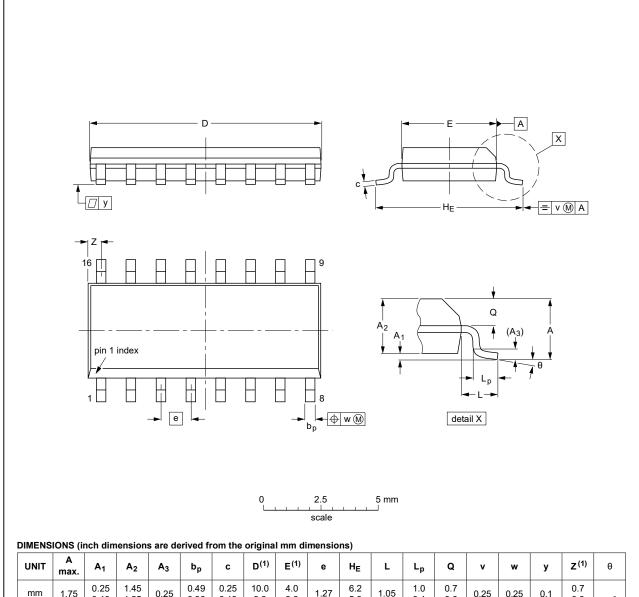
Table 9. Test data

| Туре | Input | | Load | | S1 position | | | | |
|----------------|-----------------|---------------------------------|--------------|----------------|-------------------------------------|-------------------------------------|-------------------------------------|--|--|
| | V _I | t _r , t _f | CL | R _L | t _{PHL} , t _{PLH} | t _{PZH} , t _{PHZ} | t _{PZL} , t _{PLZ} | | |
| 74AHC257-Q100 | V _{CC} | ≤ 3.0 ns | 15 pF, 50 pF | 1 kΩ | open | GND | V _{CC} | | |
| 74AHCT257-Q100 | 3.0 V | ≤ 3.0 ns | 15 pF, 50 pF | 1 kΩ | open | GND | V _{CC} | | |

11. Package outline

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

SOT109-1



| 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 | 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° |
| inches | 0.069 | 0.010 0.004 | 0.057 0.049 | 0.01 | | 0.0100 0.0075 | | 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 | 0° |

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

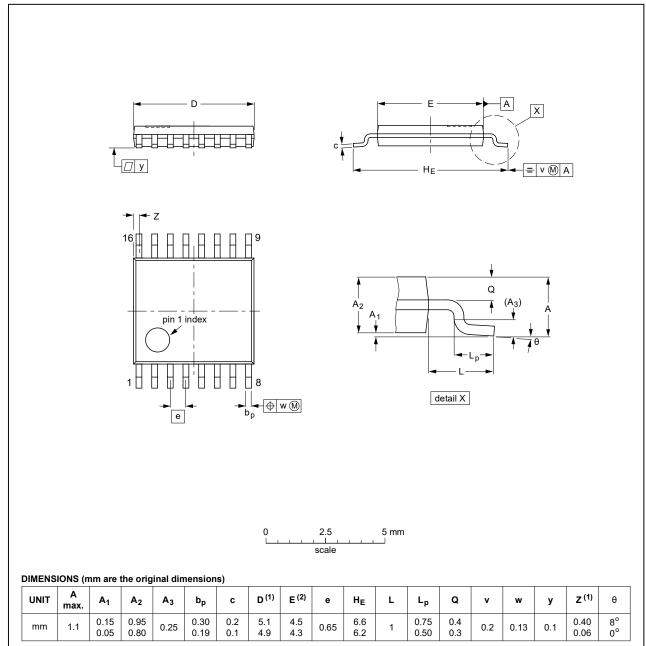
| OUTLINE | REFERENCES | | | EUROPEAN | ISSUE DATE | |
|----------|------------|--------|-------|----------|------------|---------------------------------|
| VERSION | IEC | JEDEC | JEITA | | PROJECTION | ISSUE DATE |
| SOT109-1 | 076E07 | MS-012 | | | | 99-12-27 03-02-19 |

Fig. 8. Package outline SOT109-1 (SO16)

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TSSOP16: plastic thin shrink small outline package; 16 leads; body width 4.4 mm

SOT403-1



Notes

- 1. Plastic or metal protrusions of 0.15 mm maximum per side are not included.
- 2. Plastic interlead protrusions of 0.25 mm maximum per side are not included.

| OUTLINE | REFERENCES | | | EUROPEAN | ISSUE DATE | |
|----------|------------|--------|-------|----------|------------|---------------------------------|
| VERSION | IEC | JEDEC | JEITA | | PROJECTION | ISSUE DATE |
| SOT403-1 | | MO-153 | | | | 99-12-27 03-02-18 |

Fig. 9. Package outline SOT403-1 (TSSOP16)

12. Abbreviations

Table 10. Abbreviations

| Acronym | Description |
|---------|---|
| CDM | Charged Device Model |
| CMOS | Complementary Metal-Oxide Semiconductor |
| DUT | Device Under Test |
| ESD | ElectroStatic Discharge |
| НВМ | Human Body Model |
| TTL | Transistor-Transistor Logic |

13. Revision history

Table 11. Revision history

| Document ID | Release date | Data sheet status | Change notice | Supersedes | |
|------------------------|--|--|---------------|------------------------|--|
| 74AHC_AHCT257_Q100 v.2 | 20230830 | Product data sheet | - | 74AHC_AHCT257_Q100 v.1 | |
| Modifications | guidelines o Legal texts I Section 1 up Section 2: E | 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. Section 1 updated. Section 2: ESD specification updated according to the latest JEDEC standard. Section 7: Derating values for P_{tot} total power dissipation updated. | | | |
| 74AHC_AHCT257_Q100 v.1 | 20130722 | Product data sheet | - | - | |

14. Legal information

Data sheet status

| Document status [1][2] | Product status [3] | Definition |
|--------------------------------|-----------------------|---|
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| Preliminary [short] data sheet | Qualification | This document contains data from the preliminary specification. |
| Product [short] data sheet | Production | This document contains the product specification. |

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