

## 74LVC257A

**ALVG201 A** Quad 2-input multiplexer with 5 V tolerant inputs/outputs;

Rev. 10 — 24 January 2024

Product data sheet

## 1. General description

The 74LVC257A is a guad 2-input multiplexer; 3-state. Inputs can be driven from either 3.3 V or 5 V devices. This feature allows the use of these devices as translators in mixed 3.3 V and 5 V environments.

Schmitt-trigger action at all inputs makes the circuit tolerant of slower input rise and fall times.

This device is fully specified for partial power down applications using I<sub>OFF</sub>. The I<sub>OFF</sub> circuitry disables the output, preventing the potentially damaging backflow current through the device when it is powered down.

## 2. Features and benefits

- Overvoltage tolerant inputs to 5.5 V
- Wide supply voltage range from 1.2 V to 3.6 V
- CMOS low-power consumption
- . Direct interface with TTL levels
- Output drive capability 50 Ω transmission lines at 85 °C
- I<sub>OFF</sub> circuitry provides partial Power-down mode operation
- Complies with JEDEC standard:
  - JESD8-7A (1.65 V to 1.95 V)
  - JESD8-5A (2.3 V to 2.7 V) •
  - JESD8-C/JESD36 (2.7 V to 3.6 V)
- ESD protection:
  - HBM: ANSI/ESDA/JEDEC JS-001 class 2 exceeds 2000 V
  - CDM: ANSI/ESDA/JEDEC JS-002 class C3 exceeds 1000 V
- Specified from -40 °C to +85 °C and -40 °C to +125 °C

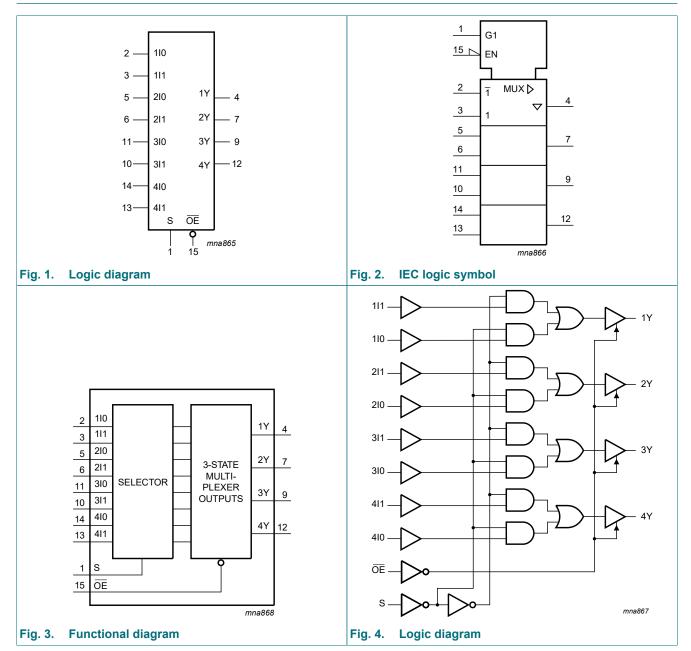
## 3. Ordering information

#### **Table 1. Ordering information**

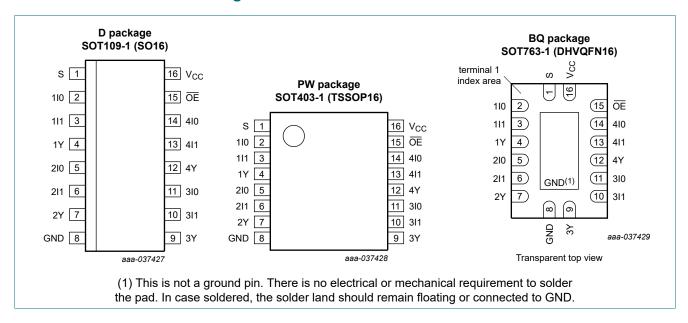
| Type number | Package           |          |  |                 |
|-------------|-------------------|----------|--|-----------------|
|             | Temperature range | Name     | Description  | Version         |
| 74LVC257AD  | -40 °C to +125 °C | SO16     | plastic small outline package; 16 leads;<br>body width 3.9 mm  | <u>SOT109-1</u> |
| 74LVC257APW | -40 °C to +125 °C | TSSOP16  | plastic thin shrink small outline package; 16 leads;<br>body width 4.4 mm  | <u>SOT403-1</u> |
| 74LVC257ABQ | -40 °C to +125 °C | DHVQFN16 | plastic dual in-line compatible thermal enhanced<br>very thin quad flat package; no leads; 16 terminals;<br>body 2.5 × 3.5 × 0.85 mm | <u>SOT763-1</u> |

# nexperia

## 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, 210, 310, 410 | 2, 5, 11, 14 | data input from source 0                 |
| 111, 211, 311, 411 | 3, 6, 10, 13 | data input from source 1                 |
| 1Y, 2Y, 3Y, 4Y     | 4, 7, 9, 12  | 3-state multiplexer output               |
| GND                | 8            | ground (0 V)                             |
| OE                 | 15           | 3-state output enable input (active LOW) |
| V <sub>CC</sub>    | 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

| Input | Output |     |     |    |
|-------|--------|-----|-----|----|
| OE    | S      | nl0 | nl1 | nY |
| Н     | Х      | Х   | Х   | Z  |
| L     | Н      | Х   | L   | L  |
| L     | Н      | Х   | Н   | Н  |
| L     | L      | L   | Х   | L  |
| L     | L      | Н   | Х   | 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 <sub>CC</sub>  | supply voltage          |   |     | -0.5 | +6.5                  | V    |
| I <sub>IK</sub>  | input clamping current  | V <sub>1</sub> < 0                            |     | -50  | -                     | mA   |
| VI               | input voltage           |   | [1] | -0.5 | +6.5                  | V    |
| I <sub>OK</sub>  | output clamping current | $V_{\rm O}$ > $V_{\rm CC}$ or $V_{\rm O}$ < 0 |     | -    | ±50                   | mA   |
| Vo               | output voltage          | HIGH or LOW state                             | [2] | -0.5 | V <sub>CC</sub> + 0.5 | V    |
|                  |                         | output 3-state                                | [2] | -0.5 | +6.5                  | V    |
| I <sub>O</sub>   | output current          | $V_{O} = 0 V$ to $V_{CC}$                     |     | -    | ±50                   | mA   |
| I <sub>CC</sub>  | supply current          |   |     | -    | 100                   | mA   |
| I <sub>GND</sub> | ground current          |   |     | -100 | -                     | mA   |
| T <sub>stg</sub> | storage temperature     |   |     | -65  | +150                  | °C   |
| P <sub>tot</sub> | total power dissipation | T <sub>amb</sub> = -40 °C to +125 °C          | [3] | -    | 500                   | mW   |

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

[2] The output voltage ratings may be exceeded if the output current ratings are observed.

[3] For SOT109-1 (SO16) package:  $P_{tot}$  derates linearly with 12.4 mW/K above 110 °C.

For SOT403-1 (TSSOP16) package: P<sub>tot</sub> derates linearly with 8.5 mW/K above 91 °C. For SOT763-1 (DHVQFN16) package: P<sub>tot</sub> derates linearly with 11.2 mW/K above 106 °C.

## 8. Recommended operating conditions

| Symbol           | Parameter                      | Conditions                       | Min  | Тур | Max             | Unit |
|------------------|--------------------------------|----------------------------------|------|-----|-----------------|------|
| V <sub>CC</sub>  | supply voltage                 |                                  | 1.65 | -   | 3.6             | V    |
|                  |                                | functional                       | 1.2  | -   | -               | V    |
| VI               | input voltage                  |                                  | 0    | -   | 5.5             | V    |
| Vo               | output voltage                 | HIGH or LOW state                | 0    | -   | V <sub>CC</sub> | V    |
|                  |                                | 3-state                          | 0    | -   | 5.5             | V    |
| T <sub>amb</sub> | ambient temperature            | in free air                      | -40  | -   | +125            | °C   |
| Δt/ΔV            | input transition rise and fall | $V_{CC}$ = 1.65 V to 2.7 V       | 0    | -   | 20              | ns/V |
|                  | rate                           | V <sub>CC</sub> = 2.7 V to 3.6 V | 0    | -   | 10              | ns/V |

#### Table 5. Recommended operating conditions

## 9. Static characteristics

#### Table 6. Static characteristics

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

| Symbol           | Parameter                       | Conditions  | -40 °C to +85 °C      |        |                     | -40 °C to             | Unit                |    |
|------------------|---------------------------------|---|-----------------------|--------|---------------------|-----------------------|---------------------|----|
|                  |                                 |   | Min                   | Typ[1] | Max                 | Min                   | Max                 | -  |
| VIH              | HIGH-level                      | V <sub>CC</sub> = 1.2 V   | 1.08                  | -      | -                   | 1.08                  | -                   | V  |
|                  | input voltage                   | V <sub>CC</sub> = 1.65 V to 1.95 V  | 0.65V <sub>CC</sub>   | -      | -                   | 0.65V <sub>CC</sub>   | -                   | V  |
|                  |                                 | V <sub>CC</sub> = 2.3 V to 2.7 V  | 1.7                   | -      | -                   | 1.7                   | -                   | V  |
|                  |                                 | V <sub>CC</sub> = 2.7 V to 3.6 V  | 2.0                   | -      | -                   | 2.0                   | -                   | V  |
| V <sub>IL</sub>  | LOW-level                       | V <sub>CC</sub> = 1.2 V   | -                     | -      | 0.12                | -                     | 0.12                | V  |
|                  | input voltage                   | V <sub>CC</sub> = 1.65 V to 1.95 V  | -                     | -      | 0.35V <sub>CC</sub> | -                     | 0.35V <sub>CC</sub> | V  |
|                  |                                 | V <sub>CC</sub> = 2.3 V to 2.7 V  | -                     | -      | 0.7                 | -                     | 0.7                 | V  |
|                  |                                 | V <sub>CC</sub> = 2.7 V to 3.6 V  | -                     | -      | 0.8                 | -                     | 0.8                 | V  |
| V <sub>OH</sub>  | HIGH-level                      | V <sub>I</sub> = V <sub>IH</sub> or V <sub>IL</sub>   |                       |        |                     |                       |                     |    |
|                  | output voltage                  | I <sub>O</sub> = -100 μA;<br>V <sub>CC</sub> = 1.65 V to 3.6 V  | V <sub>CC</sub> - 0.2 | -      | -                   | V <sub>CC</sub> - 0.3 | -                   | V  |
|                  |                                 | I <sub>O</sub> = -4 mA; V <sub>CC</sub> = 1.65 V  | 1.2                   | -      | -                   | 1.05                  | -                   | V  |
|                  |                                 | I <sub>O</sub> = -8 mA; V <sub>CC</sub> = 2.3 V   | 1.8                   | -      | -                   | 1.65                  | -                   | V  |
|                  |                                 | I <sub>O</sub> = -12 mA; V <sub>CC</sub> = 2.7 V  | 2.2                   | -      | -                   | 2.05                  | -                   | V  |
|                  |                                 | I <sub>O</sub> = -18 mA; V <sub>CC</sub> = 3.0 V  | 2.4                   | -      | -                   | 2.25                  | -                   | V  |
|                  |                                 | I <sub>O</sub> = -24 mA; V <sub>CC</sub> = 3.0 V  | 2.2                   | -      | -                   | 2.0                   | -                   | V  |
| V <sub>OL</sub>  | LOW-level                       | $V_{I} = V_{IH} \text{ or } V_{IL}$   |                       |        |                     |                       |                     |    |
|                  | output voltage                  | I <sub>O</sub> = 100 μA;<br>V <sub>CC</sub> = 1.65 V to 3.6 V   | -                     | -      | 0.2                 | -                     | 0.3                 | V  |
|                  |                                 | I <sub>O</sub> = 4 mA; V <sub>CC</sub> = 1.65 V   | -                     | -      | 0.45                | -                     | 0.65                | V  |
|                  |                                 | I <sub>O</sub> = 8 mA; V <sub>CC</sub> = 2.3 V  | -                     | -      | 0.6                 | -                     | 0.8                 | V  |
|                  |                                 | I <sub>O</sub> = 12 mA; V <sub>CC</sub> = 2.7 V   | -                     | -      | 0.4                 | -                     | 0.6                 | V  |
|                  |                                 | I <sub>O</sub> = 24 mA; V <sub>CC</sub> = 3.0 V   | -                     | -      | 0.55                | -                     | 0.8                 | V  |
| lı               | input leakage<br>current        | V <sub>CC</sub> = 3.6 V; V <sub>I</sub> = 5.5 V or GND  | -                     | ±0.1   | ±5                  | -                     | ±20                 | μA |
| I <sub>OZ</sub>  | OFF-state<br>output current     | V <sub>I</sub> = V <sub>IH</sub> or V <sub>IL</sub> ; V <sub>CC</sub> = 3.6 V;<br>V <sub>O</sub> = 5.5 V or GND | -                     | ±0.1   | ±5                  | -                     | ±20                 | μA |
| I <sub>OFF</sub> | power-off<br>leakage<br>current | $V_{CC} = 0 V; V_1 \text{ or } V_0 = 5.5 V$   | -                     | ±0.1   | ±10                 | -                     | ±20                 | μA |
| I <sub>CC</sub>  | supply current                  | $V_{CC}$ = 3.6 V; $V_I$ = $V_{CC}$ or GND;<br>$I_O$ = 0 A   | -                     | 0.1    | 10                  | -                     | 40                  | μA |
| ∆I <sub>CC</sub> | additional supply current       | per input pin;<br>$V_{CC} = 2.7 V \text{ to } 3.6 V;$<br>$V_I = V_{CC} - 0.6 V; I_O = 0 A$                      | -                     | 5      | 500                 | -                     | 5000                | μA |
| CI               | input<br>capacitance            | $V_{CC} = 0 V \text{ to } 3.6 V;$<br>$V_1 = GND \text{ to } V_{CC}$   | -                     | 5.0    | -                   | -                     | -                   | pF |

[1] All typical values are measured at V<sub>CC</sub> = 3.3 V (unless stated otherwise) and T<sub>amb</sub> = 25 °C.

## 10. Dynamic characteristics

#### **Table 7. Dynamic characteristics**

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

| Symbol             | Parameter         | Conditions                         |     | -40 | °C to +8 | 5 °C | -40 °C t | Unit |    |
|--------------------|-------------------|------------------------------------|-----|-----|----------|------|----------|------|----|
|                    |                   |                                    |     | Min | Typ[1]   | Мах  | Min      | Max  |    |
| t <sub>pd</sub>    | propagation delay | nl0, nl1 to nY; see Fig. 5         | [2] |     |          |      |          |      |    |
|                    |                   | V <sub>CC</sub> = 1.2 V            |     | -   | 16       | -    | -        | -    | ns |
|                    |                   | V <sub>CC</sub> = 1.65 V to 1.95 V |     | 1.5 | 5.2      | 10.6 | 1.5      | 12.3 | ns |
|                    |                   | V <sub>CC</sub> = 2.3 V to 2.7 V   |     | 1.0 | 2.8      | 5.5  | 1.0      | 6.4  | ns |
|                    |                   | V <sub>CC</sub> = 2.7 V            |     | 1.0 | 2.8      | 5.4  | 1.0      | 7.0  | ns |
|                    |                   | V <sub>CC</sub> = 3.0 V to 3.6 V   |     | 1.0 | 2.4      | 4.6  | 1.0      | 6.0  | ns |
|                    |                   | S to nY; see Fig. 5                | [2] |     |          |      |          |      |    |
|                    |                   | V <sub>CC</sub> = 1.2 V            |     | -   | 18       | -    | -        | -    | ns |
|                    |                   | V <sub>CC</sub> = 1.65 V to 1.95 V |     | 1.0 | 6.0      | 14.8 | 1.0      | 17.1 | ns |
|                    |                   | V <sub>CC</sub> = 2.3 V to 2.7 V   |     | 1.0 | 3.2      | 7.7  | 1.0      | 8.9  | ns |
|                    |                   | V <sub>CC</sub> = 2.7 V            |     | 1.0 | 3.2      | 7.5  | 1.0      | 9.5  | ns |
|                    |                   | V <sub>CC</sub> = 3.0 V to 3.6 V   |     | 1.0 | 2.7      | 6.4  | 1.0      | 8.0  | ns |
| t <sub>en</sub>    | enable time       | OE to nY; see Fig. 6               | [2] |     |          |      |          |      |    |
|                    |                   | V <sub>CC</sub> = 1.2 V            |     | -   | 15       | -    | -        | -    | ns |
|                    |                   | V <sub>CC</sub> = 1.65 V to 1.95 V |     | 1.5 | 5.8      | 12.7 | 1.5      | 14.7 | ns |
|                    |                   | V <sub>CC</sub> = 2.3 V to 2.7 V   |     | 1.5 | 3.3      | 7.0  | 1.5      | 8.1  | ns |
|                    |                   | V <sub>CC</sub> = 2.7 V            |     | 1.5 | 3.4      | 6.7  | 1.5      | 8.5  | ns |
|                    |                   | V <sub>CC</sub> = 3.0 V to 3.6 V   |     | 1.0 | 2.7      | 5.6  | 1.0      | 7.0  | ns |
| t <sub>dis</sub>   | disable time      | OE to nY; see Fig. 6               | [2] |     |          |      |          |      |    |
|                    |                   | V <sub>CC</sub> = 1.2 V            |     | -   | 8        | -    | -        | -    | ns |
|                    |                   | V <sub>CC</sub> = 1.65 V to 1.95 V |     | 2.2 | 4.0      | 8.2  | 2.2      | 9.4  | ns |
|                    |                   | V <sub>CC</sub> = 2.3 V to 2.7 V   |     | 0.5 | 2.2      | 4.4  | 0.5      | 5.1  | ns |
|                    |                   | V <sub>CC</sub> = 2.7 V            |     | 1.5 | 3.0      | 4.7  | 1.5      | 6.0  | ns |
|                    |                   | V <sub>CC</sub> = 3.0 V to 3.6 V   |     | 1.0 | 2.8      | 4.3  | 1.0      | 5.5  | ns |
| t <sub>sk(o)</sub> | output skew time  | V <sub>CC</sub> = 3.0 V to 3.6 V   | [3] | -   | -        | 1.0  | -        | 1.5  | ns |
| C <sub>PD</sub>    | power dissipation | per input; $V_I$ = GND to $V_{CC}$ | [4] |     |          |      |          |      |    |
|                    | capacitance       | V <sub>CC</sub> = 1.65 V to 1.95 V |     | -   | 8.0      | -    | -        | -    | pF |
|                    |                   | V <sub>CC</sub> = 2.3 V to 2.7 V   |     | -   | 11.4     | -    | -        | -    | pF |
|                    |                   | V <sub>CC</sub> = 3.0 V to 3.6 V   |     | -   | 14.4     | -    | -        | -    | pF |

[1] Typical values are measured at T<sub>amb</sub> = 25 °C and V<sub>CC</sub> = 1.2 V, 1.8 V, 2.5 V, 2.7 V, and 3.3 V respectively.

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

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

 $t_{dis}$  is the same as  $t_{PLZ}$  and  $t_{PHZ}$ . Skew between any two outputs of the same package switching in the same direction. This parameter is guaranteed by design. [3] [4]  $C_{PD}$  is used to determine the dynamic power dissipation ( $P_D$  in  $\mu$ 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<sub>i</sub> = input frequency in MHz; f<sub>o</sub> = output frequency in MHz

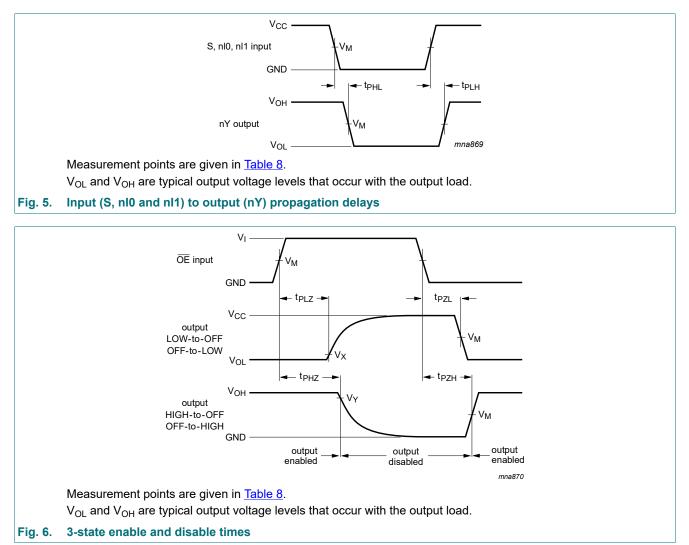
C<sub>L</sub> = output load capacitance in pF

V<sub>CC</sub> = supply voltage in Volt

N = number of inputs switching

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

## 10.1. Waveforms and test circuit

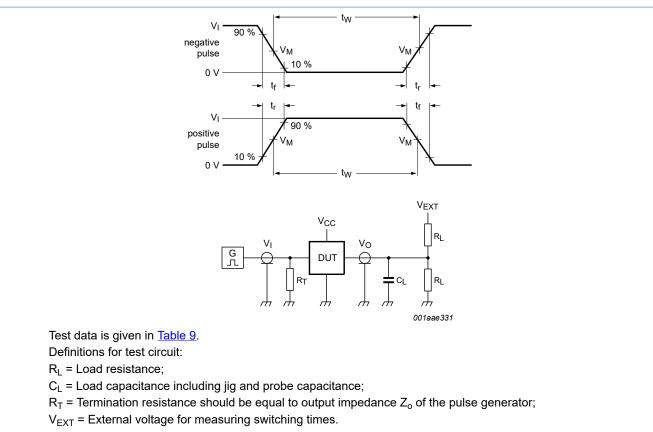


#### Table 8. Measurement points

| Supply voltage   | Input           |                     | Output                | Output                   |                          |  |  |
|------------------|-----------------|---------------------|-----------------------|--------------------------|--------------------------|--|--|
| V <sub>cc</sub>  | VI              | V <sub>M</sub>      | V <sub>M</sub>        | V <sub>X</sub>           | V <sub>Y</sub>           |  |  |
| 1.2 V            | V <sub>CC</sub> | $0.5 \times V_{CC}$ | 0.5 × V <sub>CC</sub> | V <sub>OL</sub> + 0.15 V | V <sub>OH</sub> - 0.15 V |  |  |
| 1.65 V to 1.95 V | V <sub>CC</sub> | $0.5 \times V_{CC}$ | $0.5 \times V_{CC}$   | V <sub>OL</sub> + 0.15 V | V <sub>OH</sub> - 0.15 V |  |  |
| 2.3 V to 2.7 V   | V <sub>CC</sub> | $0.5 \times V_{CC}$ | $0.5 \times V_{CC}$   | V <sub>OL</sub> + 0.15 V | V <sub>OH</sub> - 0.15 V |  |  |
| 2.7 V            | 2.7 V           | 1.5 V               | 1.5 V                 | V <sub>OL</sub> + 0.3 V  | V <sub>OH</sub> - 0.3 V  |  |  |
| 3.0 V to 3.6 V   | 2.7 V           | 1.5 V               | 1.5 V                 | V <sub>OL</sub> + 0.3 V  | V <sub>OH</sub> - 0.3 V  |  |  |

## 74LVC257A

#### Quad 2-input multiplexer with 5 V tolerant inputs/outputs; 3-state

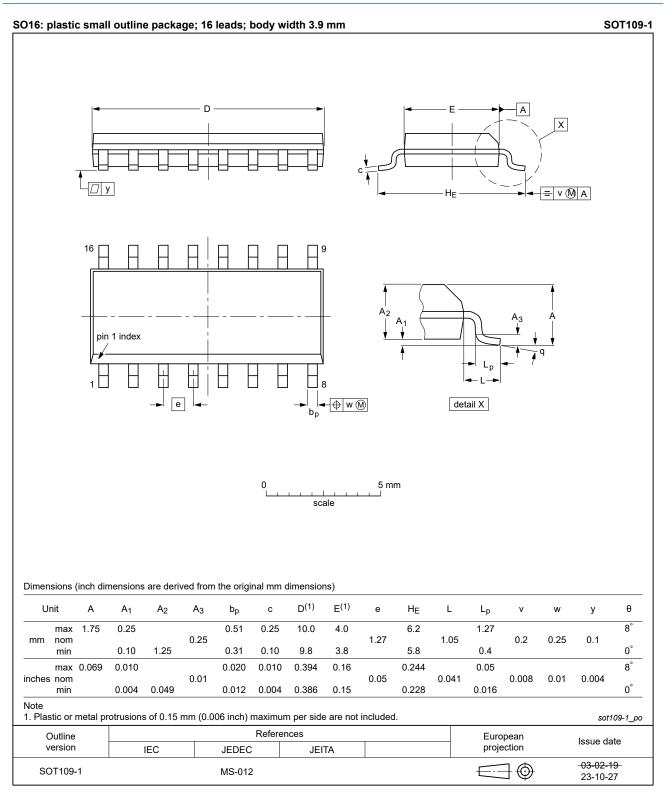


#### Fig. 7. Test circuit for measuring switching times

#### Table 9. Test data

| Supply voltage   | Input           |                                 | Load  | Load  |                                     | V <sub>EXT</sub>                    |                                     |  |
|------------------|-----------------|---------------------------------|-------|-------|-------------------------------------|-------------------------------------|-------------------------------------|--|
|                  | VI              | t <sub>r</sub> , t <sub>f</sub> | CL    | RL    | t <sub>PLH</sub> , t <sub>PHL</sub> | t <sub>PLZ</sub> , t <sub>PZL</sub> | t <sub>PHZ</sub> , t <sub>PZH</sub> |  |
| 1.2 V            | V <sub>CC</sub> | ≤ 2 ns                          | 30 pF | 1 kΩ  | open                                | $2 \times V_{CC}$                   | GND                                 |  |
| 1.65 V to 1.95 V | V <sub>CC</sub> | ≤ 2 ns                          | 30 pF | 1 kΩ  | open                                | 2 × V <sub>CC</sub>                 | GND                                 |  |
| 2.3 V to 2.7 V   | V <sub>CC</sub> | ≤ 2 ns                          | 30 pF | 500 Ω | open                                | 2 × V <sub>CC</sub>                 | GND                                 |  |
| 2.7 V            | 2.7 V           | ≤ 2.5 ns                        | 50 pF | 500 Ω | open                                | 2 × V <sub>CC</sub>                 | GND                                 |  |
| 3.0 V to 3.6 V   | 2.7 V           | ≤ 2.5 ns                        | 50 pF | 500 Ω | open                                | $2 \times V_{CC}$                   | GND                                 |  |

## **11. Package outline**



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

## 74LVC257A

#### Quad 2-input multiplexer with 5 V tolerant inputs/outputs; 3-state

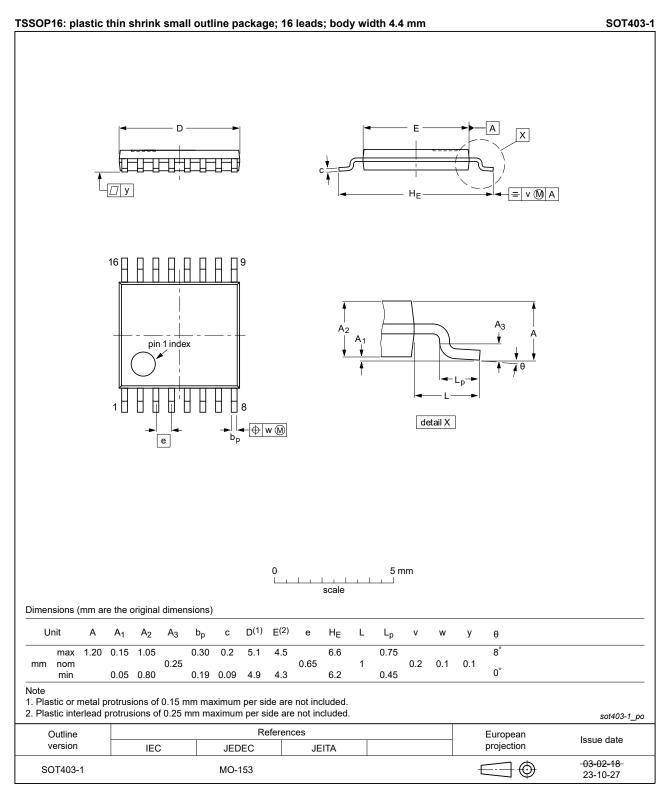
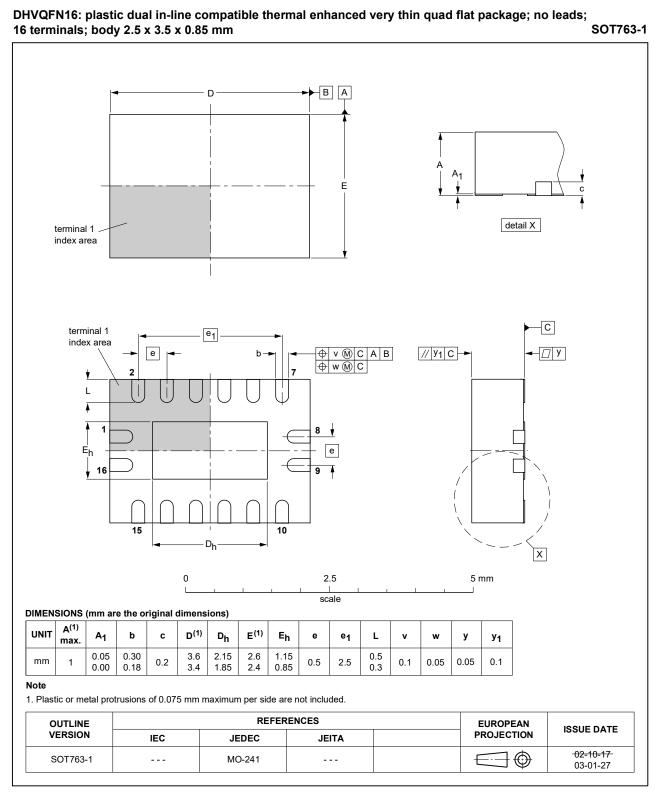


Fig. 9. Package outline SOT403-1 (TSSOP16)





## 12. Abbreviations

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

## 13. Revision history

| Document ID    | Release date   | Data sheet status  | Change notice             | Supersedes                   |
|----------------|--|--|---------------------------|------------------------------|
| 74LVC257A v.10 | 20240124   | Product data sheet   | -                         | 74LVC257A v.9                |
| Modifications: | • <u>Fig. 8, Fig. 9</u><br>MO-153                                  | 9: Aligned SO and TSSOP  | package outline o         | drawings to JEDEC MS-012 and |
| 74LVC257A v.9  | 20230822   | Product data sheet   | -                         | 74LVC257A v.8                |
| Modifications: | <u>Section 2</u> : E   | SD specification updated   | according to the la       | atest JEDEC standard.        |
| 74LVC257A v.8  | 20210831   | Product data sheet   | -                         | 74LVC257A v.7                |
| Modifications: |  | nd <u>Section 2</u> updated.<br>er 74LVC257ADB (SOT338   | 3-1/SSOP16) rem           | oved.                        |
| 74LVC257A v.7  | 20200626   | Product data sheet   | -                         | 74LVC257A v.6                |
|                | <ul> <li><u>Section 5.1</u></li> <li><u>Table 4</u>: De</li> </ul> | of Nexperia.<br>have been adapted to the<br>: Typo in figure title corrector<br>rating values for P <sub>tot</sub> total p<br>asurement points table ado | ed.<br>ower dissipation l |                              |
| 74LVC257A v.6  | 20111128   | Product data sheet   | -                         | 74LVC257A v.5                |
| Modifications: |  | ges for t <sub>pd</sub> , t <sub>en</sub> and t <sub>dis</sub> in <u>Ta</u><br>cal errors corrected.   | ble 7.                    |                              |
| 74LVC257A v.5  | 20111108   | Product data sheet   | -                         | 74LVC257A v.4                |
| Modifications: | guidelines o<br>Legal texts  | of this document has been<br>of NXP Semiconductors.<br>have been adapted to the<br>ble 5, <u>Table 6</u> , <u>Table 7</u> and                            | new company nar           |                              |
| 74LVC257A v.4  | 040123   | Product specification  | -                         | 74LVC257A v.3                |
| 74LVC257A v.3  | 031117   | Product specification  | -                         | 74LVC257A v.2                |
| 74LVC257A v.2  | 980729   | Product specification  | -                         | 74LVC257A v.1                |
| 74LVC257A v.1  | _  | _  | -                         | _                            |

## 14. Legal information

#### Data sheet status

| Document status<br>[1][2]         | Product<br>status [3] | Definition  |
|-----------------------------------|-----------------------|---|
| Objective [short]<br>data sheet   | Development           | This document contains data from<br>the objective specification for<br>product development. |
| Preliminary [short]<br>data sheet | Qualification         | This document contains data from the preliminary specification.                             |
| Product [short]<br>data sheet     | Production            | This document contains the product specification.   |

 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 <u>https://www.nexperia.com</u>.

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