74CBTLV3253

Dual 1-of-4 multiplexer/demultiplexer

Rev. 6 — 24 September 2020

Product data sheet

1. General description

The 74CBTLV3253 provides a dual 1-of-4 high-speed multiplexer/demultiplexer with two common select inputs (S0, S1) and two output enable inputs ($1\overline{OE}$, $2\overline{OE}$). The low ON resistance of the switch allows inputs to be connected to outputs without adding propagation delay or generating additional ground bounce noise. When pin \overline{OE} = LOW, one of the four switches is selected (low-impedance ON-state) with pins S0 and S1. When pin \overline{OE} = HIGH, all switches are in the high-impedance OFF-state, independent of pins S0 and S1.

To ensure the high-impedance OFF-state during power-up or power-down, $n\overline{OE}$ should be tied to the V_{CC} through a pull-up resistor. The minimum value of the resistor is determined by the current-sinking capability of the driver.

Schmitt trigger action at control input makes the circuit tolerant to slower input rise and fall times across the entire V_{CC} range from 2.3 V to 3.6 V.

This device is fully specified for partial power-down applications using I_{OFF} . The I_{OFF} circuitry disables the output, preventing the damaging backflow current through the device when it is powered down.

2. Features and benefits

- Supply voltage range from 2.3 V to 3.6 V
- High noise immunity
- Complies with JEDEC standard:
 - JESD8-5 (2.3 V to 2.7 V)
 - JESD8-B/JESD36 (2.7 V to 3.6 V)
- ESD protection:
 - HBM JESD22-A114F exceeds 2000 V
 - MM JESD22-A115-A exceeds 200 V
 - CDM AEC-Q100-011 revision B exceeds 1000 V
- 5 Ω switch connection between two ports
- · Rail to rail switching on data I/O ports
- CMOS low power consumption
- Latch-up performance exceeds 250 mA per JESD78B Class I level A
- I_{OFF} circuitry provides partial Power-down mode operation
- Multiple package options
- Specified from -40 °C to +85 °C and -40 °C to +125 °C



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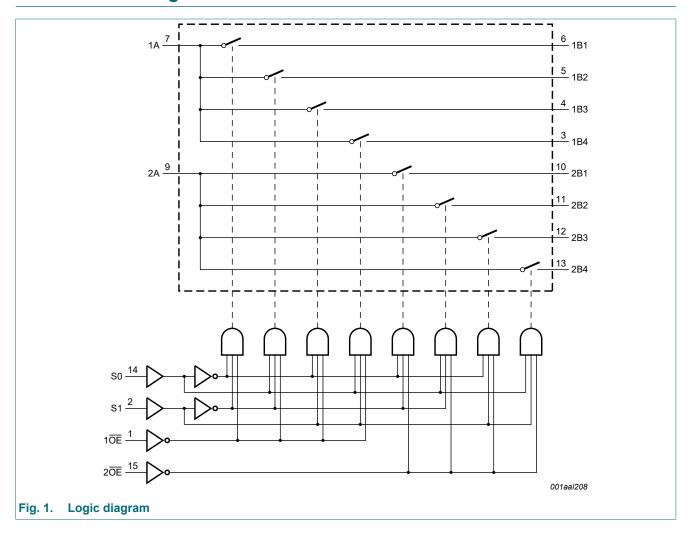
3. Ordering information

Table 1. Ordering information

| Type number | Package | Package | | | | | | | |
|---------------|-------------------|------------|--|----------|--|--|--|--|--|
| | Temperature range | Name | Description | Version | | | | | |
| 74CBTLV3253D | -40 °C to +125 °C | SO16 | plastic small outline package; 16 leads; body width 3.9 mm | SOT109-1 | | | | | |
| 74CBTLV3253DS | -40 °C to +85 °C | SSOP16 [1] | plastic shrink small outline package; 16 leads; body width 3.9 mm; lead pitch 0.635 mm | SOT519-1 | | | | | |
| 74CBTLV3253PW | -40 °C to +125 °C | TSSOP16 | plastic thin shrink small outline package; 16 leads; body width 4.4 mm | SOT403-1 | | | | | |
| 74CBTLV3253BQ | -40 °C to +125 °C | DHVQFN16 | plastic dual in-line compatible thermal enhanced very thin quad flat package; no leads; 16 terminals; body 2.5 × 3.5 × 0.85 mm | SOT763-1 | | | | | |

[1] Also known as QSOP16.

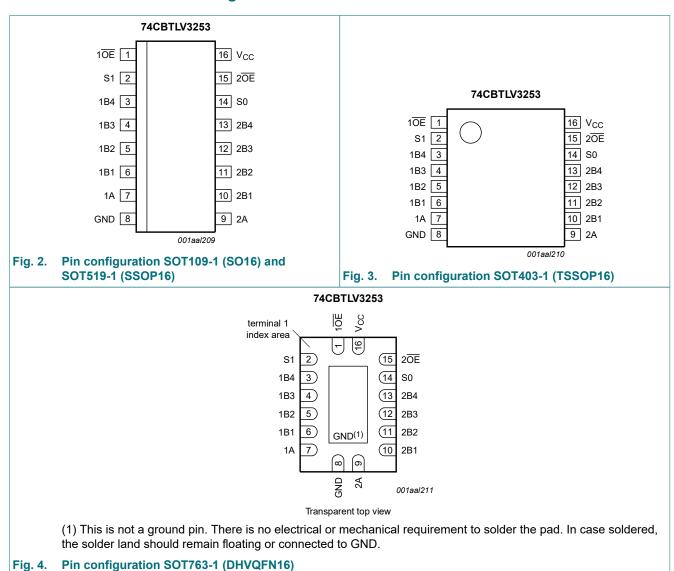
4. Functional diagram



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5. Pinning information

5.1. Pinning



5.2. Pin description

Table 2. Pin description

| Symbol | Pin | Description |
|-----------------------------------|----------------|----------------------------------|
| 1 OE , 2 OE | 1, 15 | output enable input (active LOW) |
| S0, S1 | 14, 2 | select input |
| 1B1 to 1B4 | 6, 5, 4, 3 | B input/output |
| 2B1 to 2B4 | 10, 11, 12, 13 | B input/output |
| GND | 8 | ground (0 V) |
| 1A, 2A | 7, 9 | A input/output |
| Vcc | 16 | supply voltage |

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6. Functional description

Table 3. Function table

 $H = HIGH \ voltage \ level; \ L = LOW \ voltage \ level.$

| Inputs | | Function switch | | |
|-----------------|-----------------|-----------------|----|-------------------------|
| 1 OE | 2 OE | S1 | S0 | |
| Х | Н | X | X | disconnect 2A and 2Bn |
| Н | X | X | X | disconnect 1A and 1Bn |
| L | L | L | L | 1A to 1B1 and 2A to 2B1 |
| L | L | L | Н | 1A to 1B2 and 2A to 2B2 |
| L | L | Н | L | 1A to 1B3 and 2A to 2B3 |
| L | L | Н | Н | 1A to 1B4 and 2A to 2B4 |

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 | +4.6 | V |
| VI | input voltage | control inputs [1] | -0.5 | +4.6 | V |
| V_{SW} | switch voltage | enable and disable mode [2] | -0.5 | V _{CC} + 0.5 | V |
| I _{IK} | input clamping current | V _I < -0.5 V | -50 | - | mΑ |
| I _{SK} | switch clamping current | V _I < -0.5 V | -50 | - | mA |
| I _{SW} | switch current | V _{SW} = 0 V to V _{CC} | - | ±128 | mΑ |
| I _{CC} | supply current | | - | +100 | mΑ |
| I_{GND} | ground current | | -100 | - | mΑ |
| T _{stg} | storage temperature | | -65 | +150 | °C |
| P _{tot} | total power dissipation | $T_{amb} = -40 ^{\circ}\text{C to } +125 ^{\circ}\text{C}$ [3] | - | 500 | mW |

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

8. Recommended operating conditions

Table 5. Recommended operating conditions

| Symbol | Parameter | Conditions | Min | Max | Unit |
|------------------|-------------------------------------|--|-----|-----------------|------|
| V_{CC} | supply voltage | | 2.3 | 3.6 | V |
| VI | input voltage | | 0 | 3.6 | V |
| V_{SW} | switch voltage | enable and disable mode | 0 | V _{CC} | V |
| T _{amb} | ambient temperature | | -40 | +125 | °C |
| Δt/ΔV | input transition rise and fall rate | $V_{CC} = 2.3 \text{ V to } 3.6 \text{ V}$ [1] | 0 | 200 | ns/V |

[1] Applies to control signal levels.

^[2] The switch voltage ratings may be exceeded if switch clamping current ratings are observed

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

For SOT519-1 (SSOP16) packages: Ptot derates linearly with 8.5 mW/K above 91 °C.

For SOT403-1 (TSSOP16) package: Ptot derates linearly with 8.5 mW/K above 91 °C.

For SOT763-1 (DHVQFN16) package: Ptot derates linearly with 11.2 mW/K above 106 °C.

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9. Static characteristics

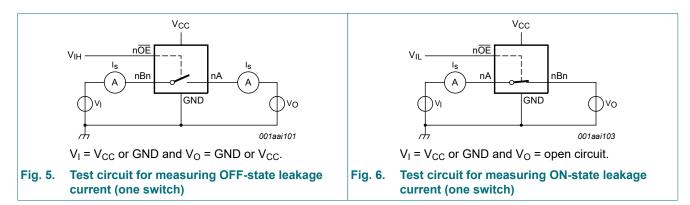
Table 6. Static characteristics

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

| Symbol | Parameter | Conditions | T _{amb} = | T _{amb} = -40 °C to +85 °C | | | T _{amb} = -40 °C to +125 °C | |
|---------------------|---------------------------|--|--------------------|-------------------------------------|-----|-----|---|----|
| | | | Min | Typ [1] | Max | Min | Max | |
| V _{IH} | HIGH-level input | V _{CC} = 2.3 V to 2.7 V | 1.7 | - | - | 1.7 | - | V |
| | voltage | V _{CC} = 3.0 V to 3.6 V | 2.0 | - | - | 2.0 | - | V |
| V _{IL} | LOW-level input | V _{CC} = 2.3 V to 2.7 V | - | - | 0.7 | - | 0.7 | V |
| | voltage | V _{CC} = 3.0 V to 3.6 V | - | - | 0.9 | - | 0.9 | V |
| l _l | input leakage current | pin $n\overline{OE}$; V_1 = GND to V_{CC} ; V_{CC} = 3.6 V | - | - | ±1 | - | ±20 | μΑ |
| I _{S(OFF)} | OFF-state leakage current | V _{CC} = 3.6 V; see <u>Fig. 5</u> | - | - | ±1 | - | ±20 | μA |
| I _{S(ON)} | ON-state leakage current | V _{CC} = 3.6 V; see <u>Fig. 6</u> | - | - | ±1 | - | ±20 | μA |
| l _{OFF} | power-off leakage current | V_{I} or $V_{O} = 0$ V to 3.6 V; $V_{CC} = 0$ V | - | - | ±10 | - | ±50 | μΑ |
| I _{CC} | supply current | V_I = GND or V_{CC} ; I_O = 0 A; V_{SW} = GND or V_{CC} ; V_{CC} = 3.6 V | - | - | 10 | - | 50 | μΑ |
| ΔI _{CC} | additional supply current | pin $n\overline{OE}$; $V_1 = V_{CC} - 0.6 \text{ V}$; $V_{SW} = \text{GND or } V_{CC}$; $V_{CC} = 3.6 \text{ V}$; One input at 3 V, other inputs at V_{CC} or GND. | - | - | 300 | - | 2000 | μА |
| Cı | input capacitance | pin $n\overline{OE}$; $V_{CC} = 3.3 \text{ V}$; $V_{I} = 0 \text{ V to } 3.3 \text{ V}$ | - | 0.9 | - | - | - | pF |
| C _{S(OFF)} | OFF-state capacitance | $V_{CC} = 3.3 \text{ V}; V_{I} = 0 \text{ V to } 3.3 \text{ V}$ | - | 5.2 | - | - | - | pF |
| C _{S(ON)} | ON-state capacitance | $V_{CC} = 3.3 \text{ V}; V_I = 0 \text{ V to } 3.3 \text{ V}$ | - | 20.0 | - | - | - | pF |

^[1] All typical values are measured at T_{amb} = 25 °C.

9.1. Test circuits



Dual 1-of-4 multiplexer/demultiplexer

9.2. ON resistance

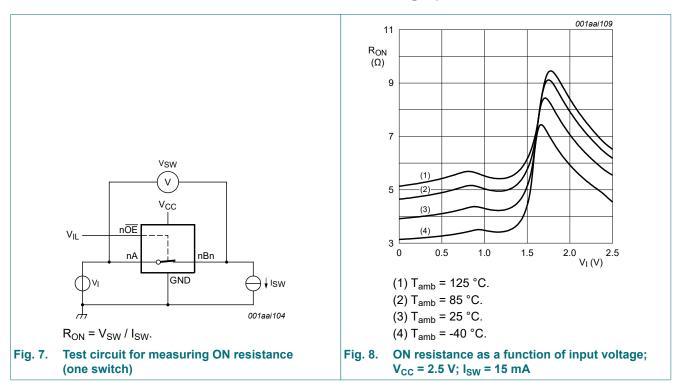
Table 7. Resistance R_{ON}

At recommended operating conditions; voltages are referenced to GND (ground = 0 V); for test circuit see Fig. 7.

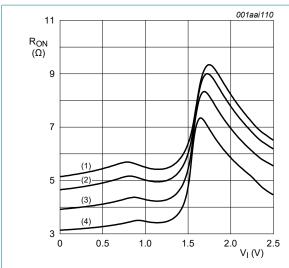
| | l | | _ | 10.00.4 | | - 40.04 | 24 - 42 - 22 | |
|-----------------|---------------|---|--------------------|-----------|--------|---------------------------|--------------|------|
| Symbol | Parameter | Conditions | I _{amb} = | -40 °C to | +85 °C | T _{amb} = -40 °(| C to +125 °C | Unit |
| | | | Min | Typ [1] | Max | Min | Max | |
| R _{ON} | ON resistance | $V_{CC} = 2.3 \text{ V to } 2.7 \text{ V};$ see Fig. 8 to Fig. 10 | | | | | | |
| | | I _{SW} = 64 mA; V _I = 0 V | - | 4.2 | 8.0 | - | 15.0 | Ω |
| | | I _{SW} = 24 mA; V _I = 0 V | - | 4.2 | 8.0 | - | 15.0 | Ω |
| | | I _{SW} = 15 mA; V _I = 1.7 V | - | 8.4 | 40.0 | - | 60.0 | Ω |
| | | V _{CC} = 3.0 V to 3.6 V; see <u>Fig. 11</u> to <u>Fig. 13</u> | | | | | | |
| | | I _{SW} = 64 mA; V _I = 0 V | - | 4.0 | 7.0 | - | 11.0 | Ω |
| | | I _{SW} = 24 mA; V _I = 0 V | - | 4.0 | 7.0 | - | 11.0 | Ω |
| | | I _{SW} = 15 mA; V _I = 2.4 V | - | 6.2 | 15.0 | - | 25.5 | Ω |

- [1] Typical values are measured at T_{amb} = 25 °C and nominal V_{CC} .
- [2] Measured by the voltage drop between the A and B terminals at the indicated current through the switch. ON-state resistance is determined by the lower of the voltages of the two (A or B) terminals.

9.3. ON resistance test circuit and graphs

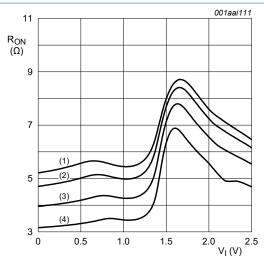


Dual 1-of-4 multiplexer/demultiplexer



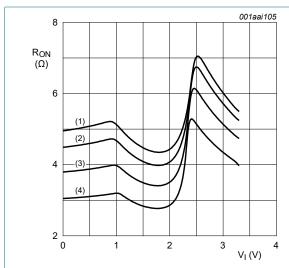
- (1) $T_{amb} = 125 \, ^{\circ}C$.
- (2) $T_{amb} = 85 \, ^{\circ}C$.
- (3) $T_{amb} = 25 \, ^{\circ}C$.
- (4) $T_{amb} = -40 \, ^{\circ}C$.

Fig. 9. ON resistance as a function of input voltage; $V_{CC} = 2.5 \text{ V}$; $I_{SW} = 24 \text{ mA}$



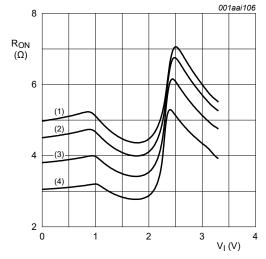
- (1) $T_{amb} = 125 \,^{\circ}C$.
- (2) $T_{amb} = 85 \, ^{\circ}C$.
- (3) $T_{amb} = 25 \, ^{\circ}C$.
- (4) $T_{amb} = -40$ °C.

Fig. 10. ON resistance as a function of input voltage; $V_{CC} = 2.5 \text{ V}$; $I_{SW} = 64 \text{ mA}$



- (1) $T_{amb} = 125 \, ^{\circ}C$.
- (2) $T_{amb} = 85 \, ^{\circ}C$.
- (3) $T_{amb} = 25 \, ^{\circ}C$.
- (4) $T_{amb} = -40 \, ^{\circ}C$.

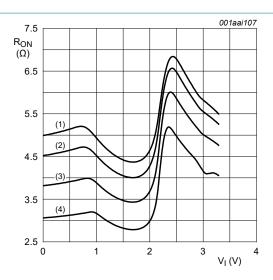
Fig. 11. ON resistance as a function of input voltage; $V_{CC} = 3.3 \text{ V}$; $I_{SW} = 15 \text{ mA}$



- (1) $T_{amb} = 125 \, ^{\circ}C$.
- (2) T_{amb} = 85 °C.
- (3) $T_{amb} = 25 \, ^{\circ}C$.
- (4) T_{amb} = -40 °C.

Fig. 12. ON resistance as a function of input voltage; $V_{CC} = 3.3 \text{ V}$; $I_{SW} = 24 \text{ mA}$

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- (1) $T_{amb} = 125 \, ^{\circ}C$.
- (2) T_{amb} = 85 °C.
- (3) $T_{amb} = 25$ °C.
- (4) $T_{amb} = -40 \, ^{\circ}C$.

Fig. 13. ON resistance as a function of input voltage; V_{CC} = 3.3 V; I_{SW} = 64 mA

10. Dynamic characteristics

Table 8. Dynamic characteristics

GND = 0 V; for test circuit see Fig. 16

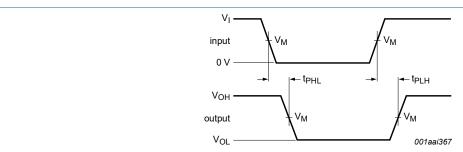
| Symbol | Parameter | Conditions | nditions T _{amb} = -40 °C to +85 °C | | T _{amb} = -40 °C to +125 °C | | Unit | |
|-----------------|---------------------------|---|--|---------|---|-----|------|----|
| | | | Min | Typ [1] | Max | Min | Max | |
| t _{pd} | | nA to nBn or nBn to nA; see Fig. 14 [2] [3] | | | | | | |
| | delay | V _{CC} = 2.3 V to 2.7 V | - | - | 0.15 | - | 0.25 | ns |
| | | V _{CC} = 3.0 V to 3.6 V | - | - | 0.15 | - | 0.25 | ns |
| | Sn to nA; see Fig. 14 [3] | | | | | | | |
| | | V _{CC} = 2.3 V to 2.7 V | | 2.2 | 6.8 | 1.0 | 7.5 | ns |
| | | V _{CC} = 3.0 V to 3.6 V | 1.0 | 2.0 | 5.5 | 1.0 | 6.1 | ns |
| t _{en} | enable time | nOE to nA or nBn; see Fig. 15 [4] | | | | | | |
| | | V _{CC} = 2.3 V to 2.7 V | 1.0 | 2.1 | 5.0 | 1.0 | 5.5 | ns |
| | | V _{CC} = 3.0 V to 3.6 V | 1.0 | 1.9 | 4.8 | 1.0 | 5.3 | ns |
| | | Sn to nBn; see Fig. 15 [4] | | | | | | |
| | | V _{CC} = 2.3 V to 2.7 V | 1.0 | 2.1 | 4.3 | 1.0 | 4.7 | ns |
| | | V _{CC} = 3.0 V to 3.6 V | 1.0 | 1.9 | 4.0 | 1.0 | 4.4 | ns |

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| Symbol | Parameter | Conditions | T _{amb} = -40 °C to +85 °C | | T _{amb} = to +1 | Unit | | |
|------------------|--------------|-----------------------------------|-------------------------------------|---------|-----------------------------|------|-----|----|
| | | | Min | Typ [1] | Max | Min | Max | |
| t _{dis} | disable time | nOE to nA or nBn; see Fig. 15 [5] | | | | | | |
| | | V _{CC} = 2.3 V to 2.7 V | 1.0 | 2.6 | 5.5 | 1.0 | 6.1 | ns |
| | | V _{CC} = 3.0 V to 3.6 V | 1.0 | 3.2 | 5.4 | 1.0 | 5.9 | ns |
| | | Sn to nBn; see Fig. 15 [5] | | | | | | |
| | | V _{CC} = 2.3 V to 2.7 V | 0.8 | 2.0 | 4.8 | 0.8 | 5.3 | ns |
| | | V _{CC} = 3.0 V to 3.6 V | 1.0 | 2.0 | 4.5 | 1.0 | 5.0 | ns |

- All typical values are measured at T_{amb} = 25 °C and at nominal V_{CC} . The propagation delay is the calculated RC time constant of the typical on-state resistance of the switch and the load capacitance, when driven by an ideal voltage source (zero output impedance).
- t_{pd} is the same as t_{PLH} and t_{PHL}
- [4] t_{en} is the same as t_{PZH} and t_{PZL}.
- t_{dis} is the same as t_{PHZ} and t_{PLZ} .

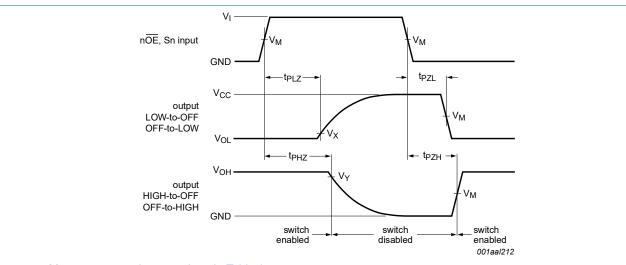
10.1. Waveforms



Measurement points are given in Table 9.

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

Fig. 14. The data input (nA or nBn) to output (nBn or nA) propagation delays



Measurement points are given in Table 9.

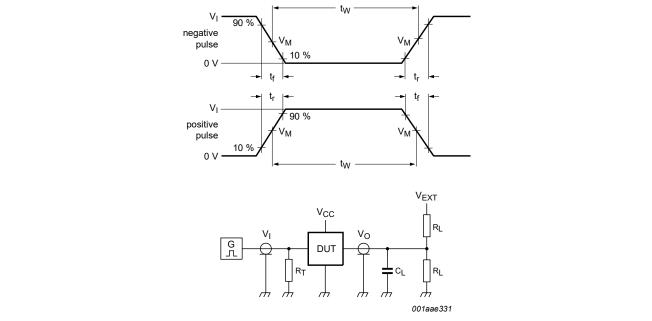
 V_{OL} and V_{OH} are typical output voltage levels that occur with the output load.

Fig. 15. Enable and disable times

Dual 1-of-4 multiplexer/demultiplexer

Table 9. Measurement points

| Supply voltage | Input | | | Output | | |
|-----------------|--------------------|-----------------|-------------|--------------------|--------------------------|--------------------------|
| V _{CC} | V _M | V _I | $t_r = t_f$ | V _M | V _X | V _Y |
| 2.3 V to 2.7 V | 0.5V _{CC} | V _{CC} | ≤ 2.0 ns | 0.5V _{CC} | V _{OL} + 0.15 V | V _{OH} - 0.15 V |
| 3.0 V to 3.6 V | 0.5V _{CC} | V _{CC} | ≤ 2.0 ns | 0.5V _{CC} | V _{OL} + 0.3 V | V _{OH} - 0.3 V |



Test data is given in Table 10.

Definitions for test circuit:

R_L = Load resistance.

 C_L = Load capacitance including jig and probe capacitance.

 R_T = Termination resistance should be equal to the output impedance Z_o of the pulse generator.

 V_{EXT} = External voltage for measuring switching times.

Fig. 16. Test circuit for measuring switching times

Table 10. Test data

| Supply voltage | Load | | V _{EXT} | | | |
|-----------------|-------|-------|-------------------------------------|-------------------------------------|-------------------------------------|--|
| V _{CC} | CL | R_L | t _{PLH} , t _{PHL} | t _{PZH} , t _{PHZ} | t _{PZL} , t _{PLZ} | |
| 2.3 V to 2.7 V | 30 pF | 500 Ω | open | GND | 2V _{CC} | |
| 3.0 V to 3.6 V | 50 pF | 500 Ω | open | GND | 2V _{CC} | |

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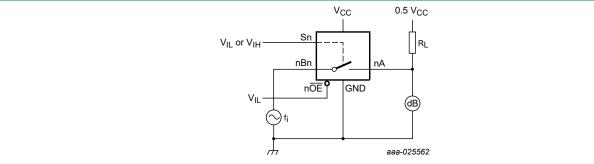
10.2. Additional dynamic characteristics

Table 11. Additional dynamic characteristics

At recommended operating conditions; voltages are referenced to GND (ground = 0 V); V_I = GND or V_{CC} (unless otherwise specified); t_r = $t_f \le 2.5$ ns.

| Symbol | Parameter | Conditions | ٦ | Γ _{amb} = 25 °C | ; | Unit |
|---------------------|--------------------------|--|-----|--------------------------|-----|------|
| | | | Min | Тур | Max | |
| f _(-3dB) | -3 dB frequency response | $V_{CC} = 3.3 \text{ V}; R_L = 50 \Omega; \text{ see } \frac{\text{Fig. } 17}{}$ [1] | - | 302 | - | MHz |

[1] f_i is biased at 0.5 V_{CC} .



 $n\overline{\text{OE}}$ connected to GND; Adjust f_i voltage to obtain 0 dBm level at output. Increase f_i frequency until dB meter reads -3 dB.

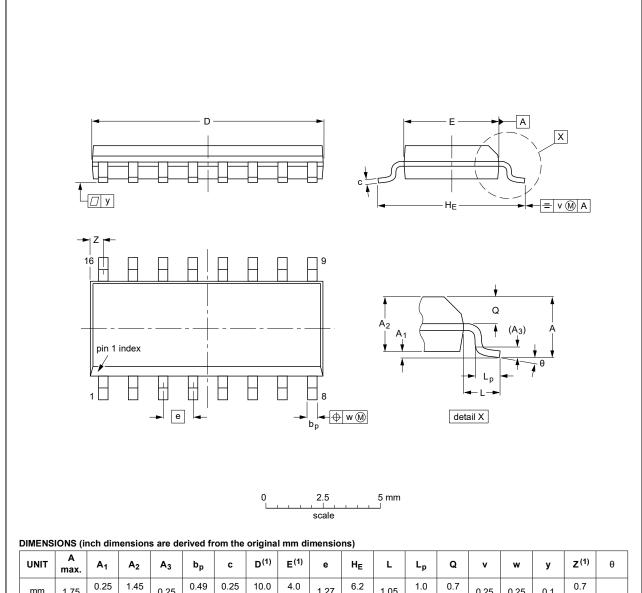
Fig. 17. Test circuit for measuring the frequency response when channel is in ON-state

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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 | 0.39 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 | 0° |

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 | |
| SOT109-1 | 076E07 | MS-012 | | | | 99-12-27 03-02-19 | |

Fig. 18. Package outline SOT109-1 (SO16)

Dual 1-of-4 multiplexer/demultiplexer

SSOP16: plastic shrink small outline package; 16 leads; body width 3.9 mm; lead pitch 0.635 mm SOT519-1

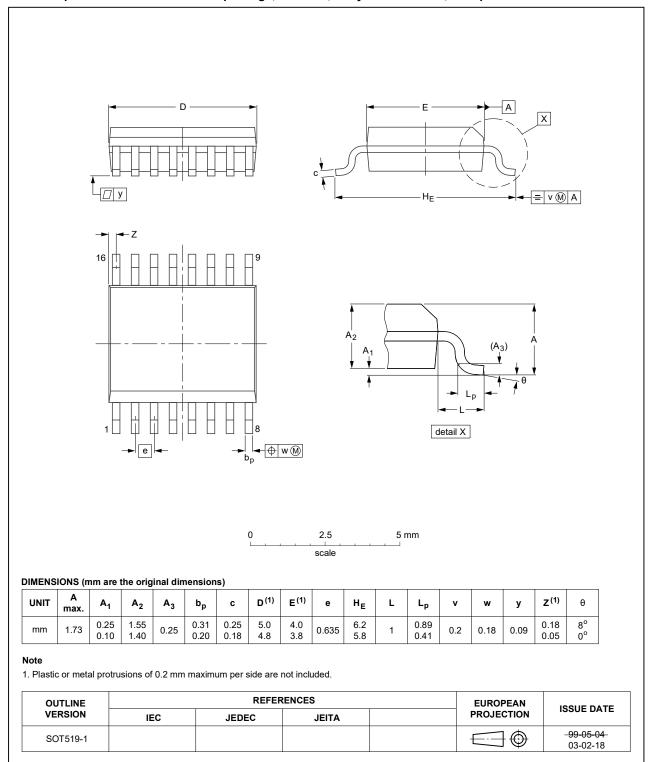
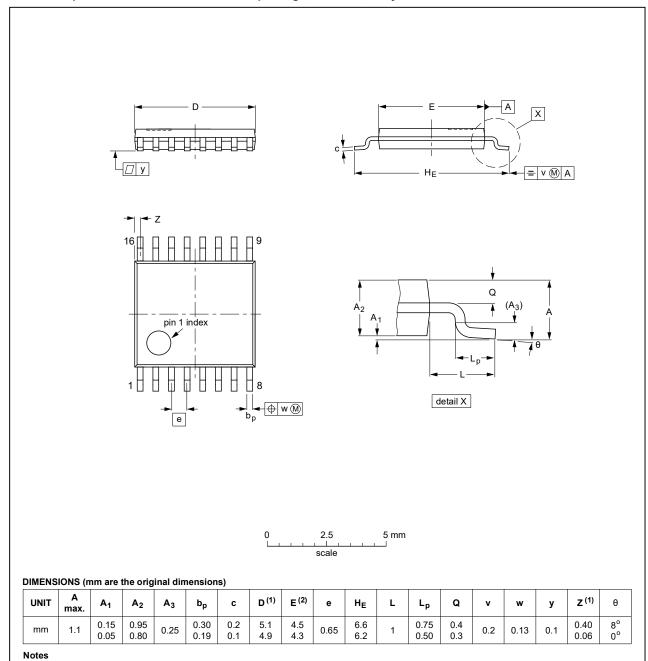


Fig. 19. Package outline SOT519-1 (SSOP16)

Dual 1-of-4 multiplexer/demultiplexer

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

SOT403-1



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

Fig. 20. Package outline SOT403-1 (TSSOP16)

Dual 1-of-4 multiplexer/demultiplexer

DHVQFN16: plastic dual in-line compatible thermal enhanced very thin quad flat package; no leads; 16 terminals; body 2.5 x 3.5 x 0.85 mm SOT763-1

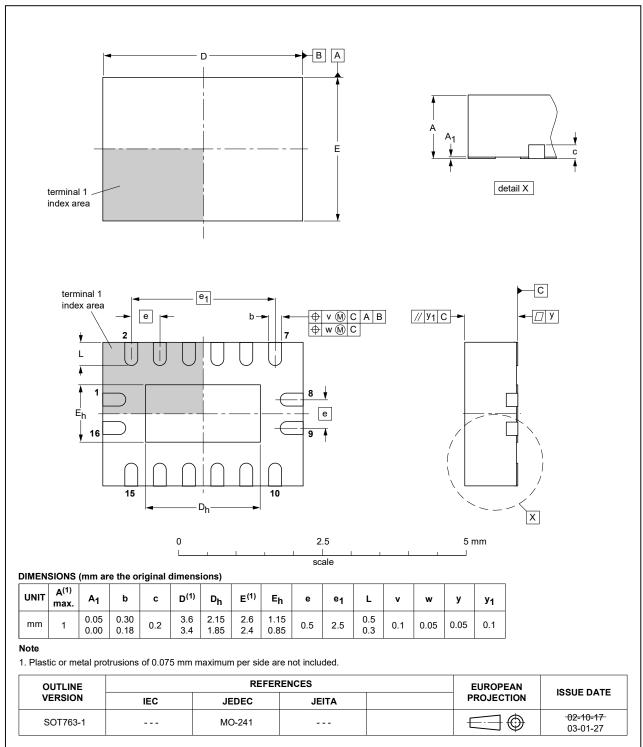


Fig. 21. Package outline SOT763-1 (DHVQFN16)

Dual 1-of-4 multiplexer/demultiplexer

12. Abbreviations

Table 12. Abbreviations

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

13. Revision history

Table 13. Revision history

| Document ID | Release date | Data sheet status | Change notice | Supersedes |
|-----------------|--------------------------|--|-----------------|-----------------------|
| 74CBTLV3253 v.6 | 20200924 | Product data sheet | - | 74CBTLV3253 v.5 |
| Modifications: | guidelines • Legal texts | of this data sheet has been of Nexperia. have been adapted to the erating values for P _{tot} total p | new company nar | me where appropriate. |
| 74CBTLV3253 v.5 | 20161111 | Product data sheet | - | 74CBTLV3253 v.4 |
| Modifications: | Section 10 | .2 added. | | |
| 74CBTLV3253 v.4 | 20111215 | Product data sheet | - | 74CBTLV3253 v.3 |
| Modifications: | Legal page | s updated. | ' | |
| 74CBTLV3253 v.3 | 20110107 | Product data sheet | - | 74CBTLV3253 v.2 |
| 74CBTLV3253 v.2 | 20101125 | Product data sheet | - | 74CBTLV3253 v.1 |
| 74CBTLV3253 v.1 | 20100108 | Product data sheet | - | - |

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14. Legal information

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. |

- Please consult the most recently issued document before initiating or completing a design.
- [2] The term 'short data sheet' is explained in section "Definitions".
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