Dual 1-of-4 multiplexer/demultiplexer Rev. 2 — 10 November 2016

Product data sheet

General description 1.

The 74CBTLV3253-Q100 provides a dual 1-of-4 high-speed multiplexer/demultiplexer with two common select inputs (S0, S1) and two output enable inputs (10E, 20E). 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 nOE = LOW, one of the four switches is selected (low-impedance ON-state) with pins S0 and S1. When pin nOE = 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, nOE should be tied to the V_{CC} through a pull-up resistor. The current-sinking capability of the driver determines the minimum value of the resistor.

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.

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

Features and benefits 2.

- Automotive product qualification in accordance with AEC-Q100 (Grade 1)
 - Specified from –40 °C to +85 °C and from –40 °C to +125 °C
- 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:
 - MIL-STD-883, method 3015 exceeds 2000 V
 - HBM JESD22-A114F exceeds 2000 V
 - MM JESD22-A115-A exceeds 200 V (C = 200 pF, R = 0 Ω)
- 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
- IOFF circuitry provides partial Power-down mode operation
- Multiple package options

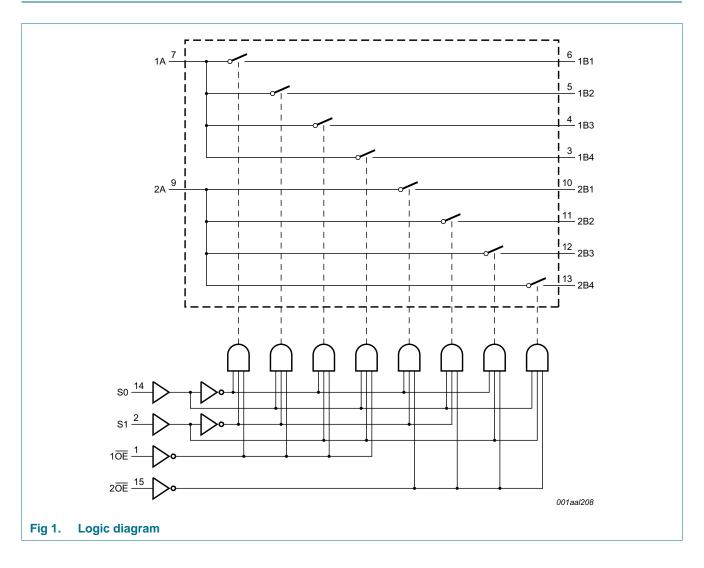
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3. Ordering information

Table 1.	Ordering i	information
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Type number	Package						
	Temperature range	Name	Description	Version			
74CBTLV3253D-Q100	–40 °C to +125 °C	SO16	plastic small outline package; 16 leads; body width 3.9 mm	SOT109-1			
74CBTLV3253PW-Q100	–40 °C to +125 °C	TSSOP16	plastic thin shrink small outline package; 16 leads; body width 4.4 mm	SOT403-1			
74CBTLV3253BQ-Q100	–40 °C to +125 °C	DHVQFN16	plastic dual-in-line compatible thermal enhanced very thin quad flat package; no leads; 16 terminals; body $2.5 \times 3.5 \times 0.85$ mm	SOT763-1			

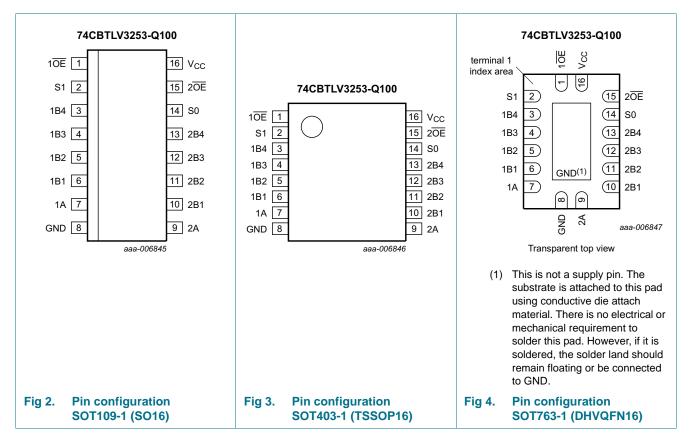
4. Functional diagram



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5. Pinning information

5.1 Pinning



5.2 Pin description

Table 2. Pin description		
Symbol	Pin	Description
1 <u>0E</u> , 2 <u>0E</u>	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
V _{cc}	16	supply voltage

6. Functional description

Table 3.Function table[1]

Inputs				Function switch
1 <mark>OE</mark>	2OE	S1	S0	
Х	Н	Х	Х	disconnect 2A and 2Bn
Н	Х	Х	Х	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

[1] H = HIGH voltage level; L = LOW voltage level.

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).

• • •		A 11/1				
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	-	mA
I _{SK}	switch clamping current	V ₁ < -0.5 V		-50	-	mA
I _{SW}	switch current	$V_{SW} = 0 V \text{ to } V_{CC}$		-	±128	mA
I _{CC}	supply current			-	+100	mA
I _{GND}	ground current			-100	-	mA
T _{stg}	storage temperature			-65	+150	°C
P _{tot}	total power dissipation	$T_{amb} = -40 \text{ °C to } +125 \text{ °C}$	3]	-	500	mW

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

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

[3] For TSSOP16 packages: P_{tot} derates linearly with 5.5 mW/K above 60 °C.

For DHVQFN16 packages: P_{tot} derates linearly with 4.5 mW/K above 60 °C.

8. Recommended operating conditions

Table 5. Recommended operating conditions

Symbol	Parameter	Conditions	Min	Мах	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
$\Delta t / \Delta V$	input transition rise and fall rate	V _{CC} = 2.3 V to 3.6 V [1]	0	200	ns/V

[1] Applies to control signal levels.

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9. Static characteristics

Table 6. Static characteristics

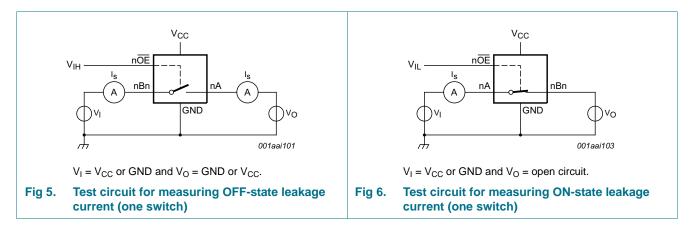
At recommended operating conditions voltages are referenced to GND (ground = 0 V).

Symbol	Parameter	Conditions	T _{amb} =	–40 °C to -	⊦85 °C	T _{amb} = -40 °	C to +125 °C	Unit
			Min	Typ <mark>[1]</mark>	Max	Min	Max	
V _{IH}	HIGH-level	$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$	1.7	-	-	1.7	-	V
	input voltage	$V_{CC} = 3.0 \text{ V} \text{ to } 3.6 \text{ V}$	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 _I = GND to V _{CC} ; V _{CC} = 3.6 V	-	-	±1	-	±20	μA
I _{S(OFF)}	OFF-state leakage current	$V_{CC} = 3.6 V$; see <u>Figure 5</u>	-	-	±1	-	±20	μA
I _{S(ON)}	ON-state leakage current	V_{CC} = 3.6 V; see <u>Figure 6</u>	-	-	±1	-	±20	μA
I _{OFF}	power-off leakage current	$V_1 \text{ or } V_O = 0 \text{ V to } 3.6 \text{ V};$ $V_{CC} = 0 \text{ V}$	-	-	±10	-	±50	μA
I _{CC}	supply current		-	-	10	-	50	μA
Δl _{CC}	additional supply current	$ \begin{array}{ll} \mbox{pin n} \overline{\mbox{OE}}; \ \mbox{V}_{I} = \ \mbox{V}_{CC} - 0.6 \ \mbox{V}; & \mbox{I2} \\ \ \mbox{V}_{SW} = \ \mbox{GND or } \ \mbox{V}_{CC}; \\ \ \mbox{V}_{CC} = 3.6 \ \mbox{V} \\ \end{array} $	-	-	300	-	2000	μA
CI	input capacitance	pin n \overline{OE} ; V _{CC} = 3.3 V; V _I = 0 V to 3.3 V	-	0.9	-	-	-	pF
$C_{S(OFF)}$	OFF-state capacitance	$V_{CC} = 3.3 \text{ V}; V_1 = 0 \text{ V} \text{ to } 3.3 \text{ V}$	-	5.2	-	-	-	pF
C _{S(ON)}	ON-state capacitance	$V_{CC} = 3.3 \text{ V}; V_1 = 0 \text{ V to } 3.3 \text{ V}$	-	20.0	-	-	-	pF

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

[2] One input at 3 V, other inputs at V_{CC} or GND.

9.1 Test circuits



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9.2 ON resistance

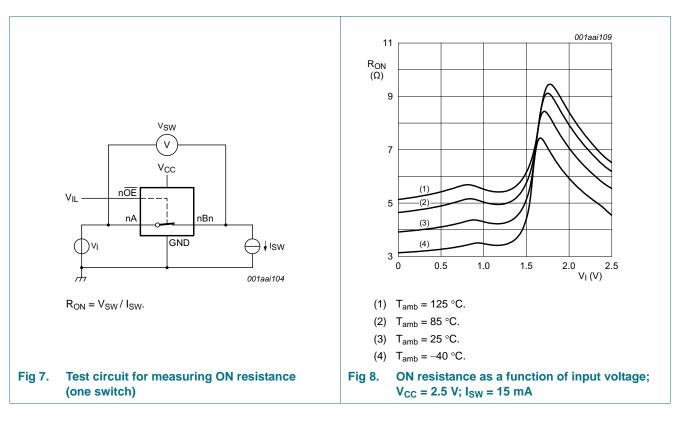
Table 7. Resistance R_{ON}

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

Symbol	Parameter	Conditions	T _{amb} = –40 °C to +85 °C			T _{amb} = -40 °	Unit	
			Min	Typ <mark>[1]</mark>	Max	Min	Max	
R _{ON}	ON resistance	V _{CC} = 2.3 V to 2.7 V; [2] see <u>Figure 8</u> to <u>Figure 10</u>						
		$I_{SW} = 64 \text{ mA}; V_I = 0 \text{ V}$	-	4.2	8.0	-	15.0	Ω
		$I_{SW} = 24 \text{ mA}; V_I = 0 \text{ V}$	-	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>Figure 11</u> to <u>Figure 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 $T_{amb} = 25 \text{ °C}$ and nominal V_{CC} .

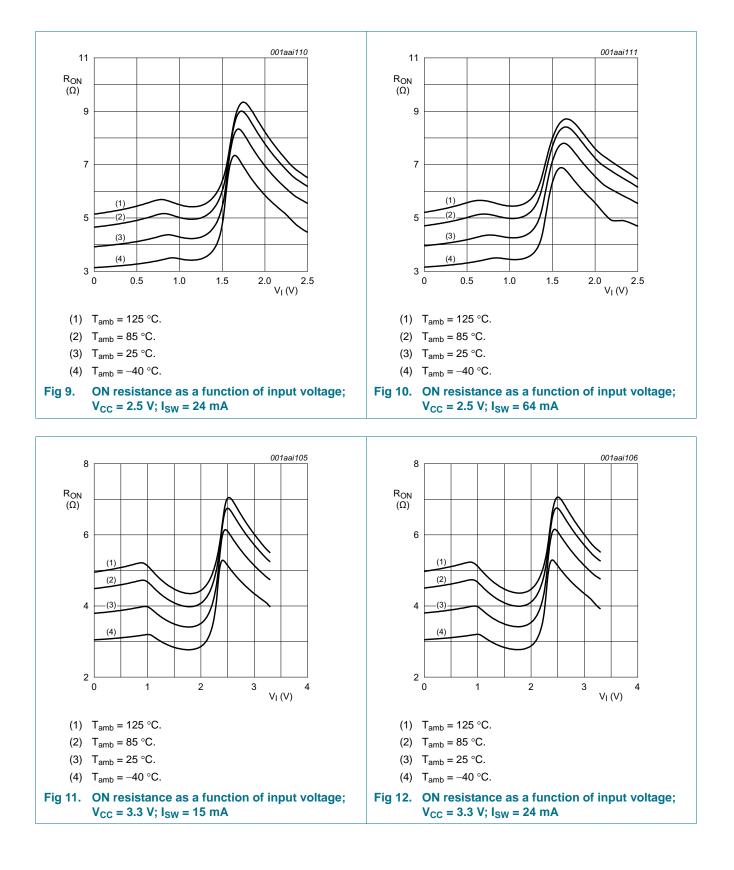
[2] Measured by the voltage drop between the A and B terminals at the indicated current through the switch. ON-state resistance is determined by the lower of the voltages of the two (A or B) terminals.



9.3 ON resistance test circuit and graphs

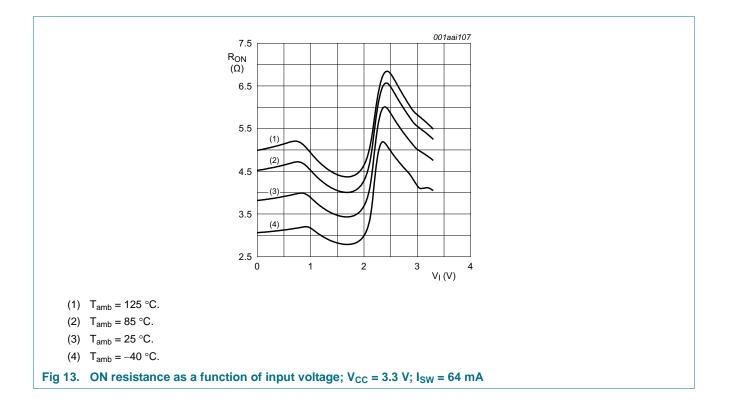
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10. Dynamic characteristics

Table 8. Dynamic characteristics

GND = 0 V; for test circuit see <u>Figure 16</u>

Symbol	Parameter	Conditions		T _{amb} = ·	–40 °C to	+85 °C	T _{amb} = -40 °	Unit	
				Min	Typ[1]	Max	Min	Max	1
t _{pd}	propagation delay	nA to nBn or nBn to nA; see <u>Figure 14</u>	[2][3]						
		V_{CC} = 2.3 V to 2.7 V		-	-	0.15	-	0.25	ns
		$V_{CC} = 3.0 \text{ V} \text{ to } 3.6 \text{ V}$		-	-	0.15	-	0.25	ns
		Sn to nA; see Figure 14	[3]						
		V_{CC} = 2.3 V to 2.7 V		1.0	2.2	6.8	1.0	7.5	ns
		$V_{CC} = 3.0 \text{ V} \text{ to } 3.6 \text{ V}$		1.0	2.0	5.5	1.0	6.1	ns
t _{en} e	enable time	nOE to nA or nBn; see <u>Figure 15</u>	<u>[4]</u>						
		V_{CC} = 2.3 V to 2.7 V		1.0	2.1	5.0	1.0	5.5	ns
		$V_{CC} = 3.0 \text{ V} \text{ to } 3.6 \text{ V}$		1.0	1.9	4.8	1.0	5.3	ns
		Sn to nBn; see Figure 15	[4]						
		V_{CC} = 2.3 V to 2.7 V		1.0	2.1	4.3	1.0	4.7	ns
		$V_{CC} = 3.0 \text{ V} \text{ to } 3.6 \text{ V}$		1.0	1.9	4.0	1.0	4.4	ns
t _{dis}	disable time	nOE to nA or nBn; see <u>Figure 15</u>	<u>[5]</u>						
		V_{CC} = 2.3 V to 2.7 V		1.0	2.6	5.5	1.0	6.1	ns
		$V_{CC} = 3.0 \text{ V} \text{ to } 3.6 \text{ V}$		1.0	3.2	5.4	1.0	5.9	ns
		Sn to nBn; see Figure 15	[5]						
		V_{CC} = 2.3 V to 2.7 V		0.8	2.0	4.8	0.8	5.3	ns
		$V_{CC} = 3.0 \text{ V} \text{ to } 3.6 \text{ V}$		1.0	2.0	4.5	1.0	5.0	ns

[1] All typical values are measured at T_{amb} = 25 $^\circ C$ and at nominal $V_{CC}.$

[2] 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).

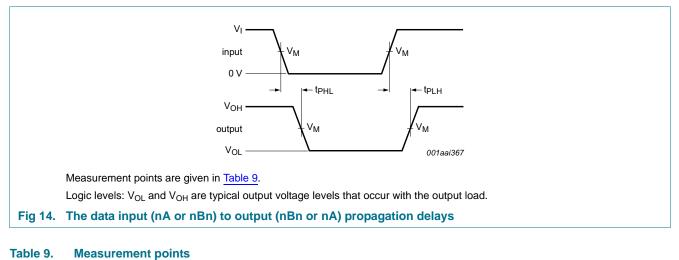
[3] t_{pd} is the same as t_{PLH} and t_{PHL} .

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

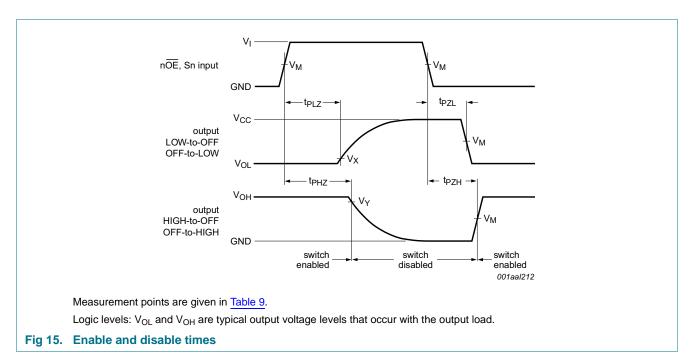
[5] t_{dis} is the same as t_{PHZ} and t_{PLZ} .

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11. Waveforms



Supply voltage	Input			Output		
V _{cc}	V _M	VI	$t_r = t_f$	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



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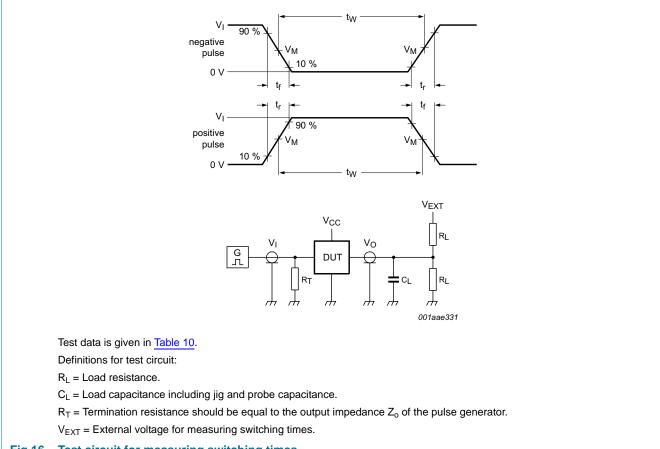


Fig 16. Test circuit for measuring switching times

Table 10. Test data

Supply voltage	Load		V _{EXT}			
V _{cc}	CL	RL	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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11.1 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	T _{amb} = 25 °C			Unit
			Min	Тур	Max	
f _(-3dB)	–3 dB frequency response	$V_{CC} = 3.3 \text{ V}; \text{ R}_{L} = 50 \Omega; \text{ see Figure 17}$ [1]	-	302	-	MHz

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

11.2 Test circuits

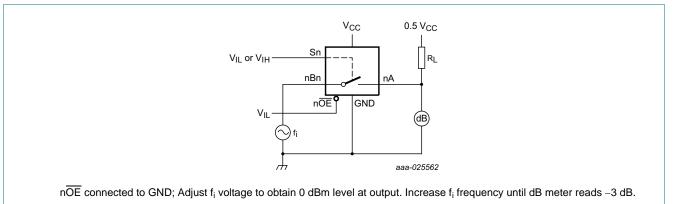


Fig 17. Test circuit for measuring the frequency response when channel is in ON-state

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12. Package outline

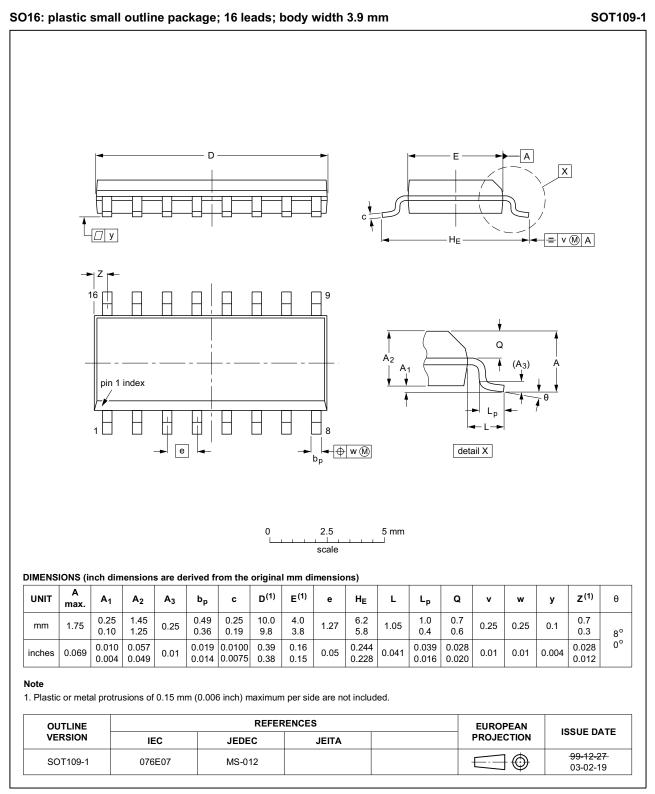


Fig 18. Package outline SOT109-1 (SO16)

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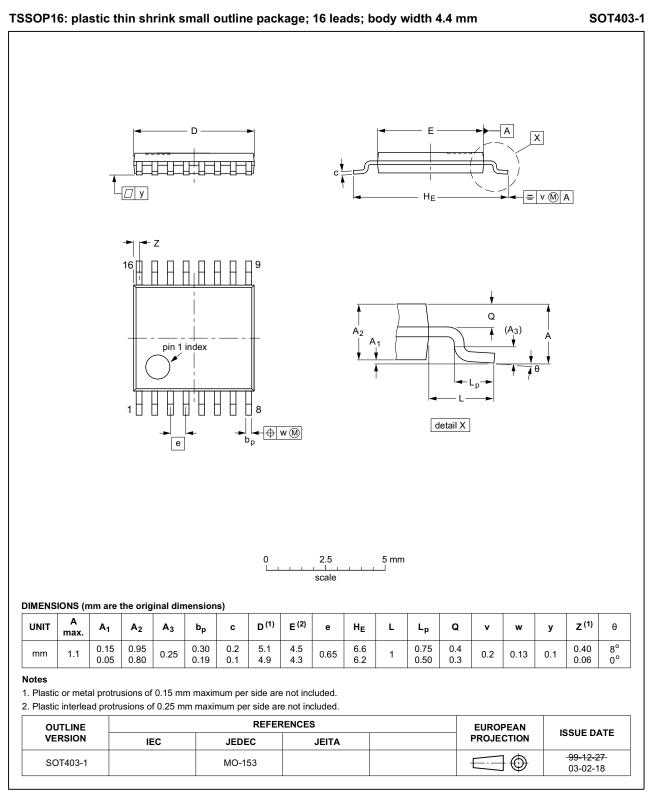
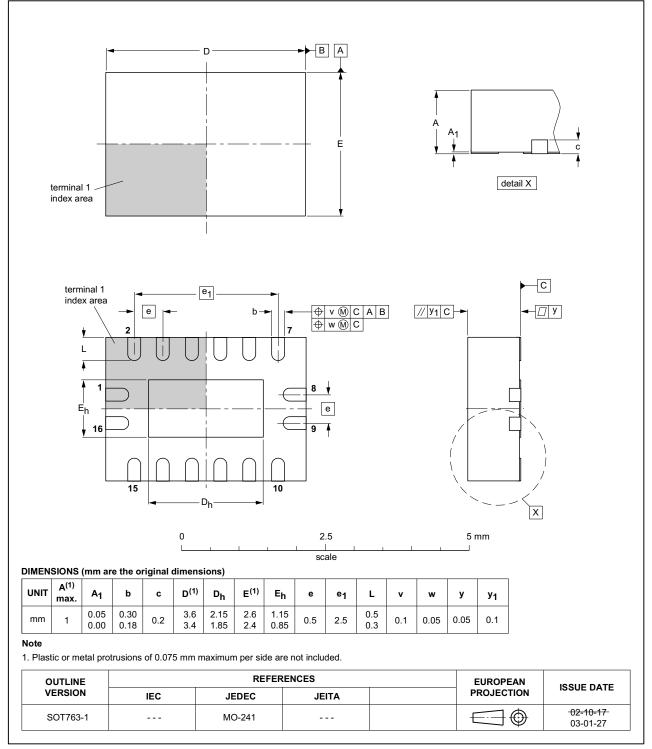


Fig 19. Package outline SOT403-1 (TSSOP16)

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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 20. Package outline SOT763-1 (DHVQFN16)

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13. 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	
MIL	Military	
MM	Machine Model	

14. Revision history

Table 13. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
74CBTLV3253_Q100 v.2	20161110	Product data sheet	-	74CBTLV3253_Q100 v.1
Modifications:	• <u>Section 11.1</u> and <u>Section 11.2</u> added.			
74CBTLV3253_Q100 v.1	20130403	Product data sheet	-	-

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".

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74CBTLV3253-Q100

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