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4-bit bus switch Rev. 4 — 8 November 2016

1. General description

The 74CBTLV3126 provides a 4-bit high-speed bus switch with separate output enable inputs (1OE to 4OE). The low on-state resistance of the switch allows connections to be made with minimal propagation delay. The switch is disabled (high-impedance OFF-state) when the output enable (nOE) input is LOW.

To ensure the high-impedance OFF-state during power-up or power-down, nOE should be tied to the GND through a pull-down 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
- Standard '126'-type pinout
- 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



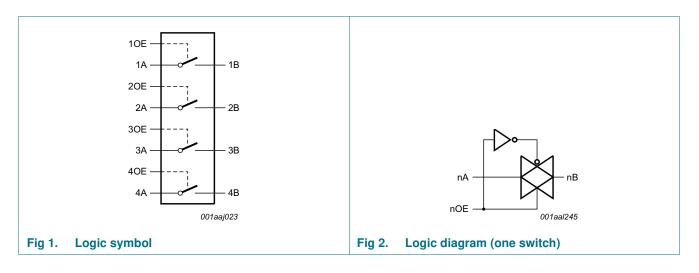
4-bit bus switch

3. Ordering information

Table 1. Orderin	Table 1. Ordering information									
Type number	Package									
	Temperature range Name		Description	Version						
74CBTLV3126DS	-40 °C to +125 °C	SSOP16 ^[1]	plastic shrink small outline package; 16 leads; body width 3.9 mm; lead pitch 0.635 mm	SOT519-1						
74CBTLV3126PW	-40 °C to +125 °C	TSSOP14	plastic thin shrink small outline package; 14 leads; body width 4.4 mm	SOT402-1						
74CBTLV3126BQ	–40 °C to +125 °C	DHVQFN14	plastic dual in-line compatible thermal enhanced very thin quad flat package; no leads; 14 terminals; body $2.5 \times 3 \times 0.85$ mm	SOT762-1						

[1] Also known as QSOP16.

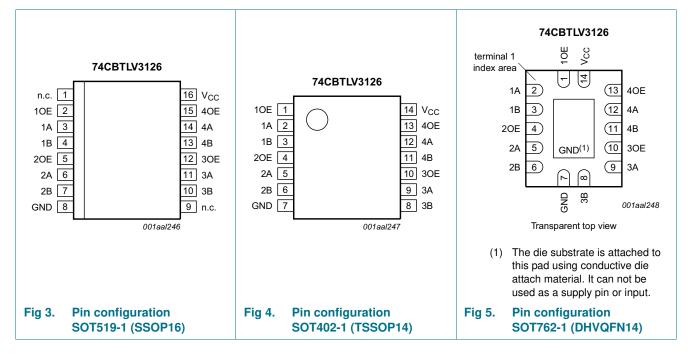
4. Functional diagram



4-bit bus switch

5. Pinning information

5.1 Pinning



5.2 Pin description

. . .

Symbol	Pin	Pin			
	SOT402-1 and SOT762-1	SOT519-1			
1OE to 4OE	1, 4, 10, 13	2, 5, 12, 15	output enable input		
1A to 4A,	2, 5, 9, 12	3, 6, 11, 14	A input/output		
1B to 4B	3, 6, 8, 11	4, 7, 10, 13	B output/input		
GND	7	8	ground (0 V)		
V _{CC}	14	16	positive supply voltage		
n.c.	-	1, 9	not connected		

6. Functional description

Table 3. Function table^[1]

Output enable input OE	Function switch				
L	OFF-state				
Н	ON-state				

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

74CBTLV3126 Product data sheet

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	-	mA
I _{SK}	switch clamping current	V _I < -0.5 V	-50	-	mA
I _{SW}	switch current	$V_{SW} = 0 V$ 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	$T_{amb} = -40 \ ^{\circ}C \ to \ +125 \ ^{\circ}C$ [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

For SSOP16 and TSSOP14 packages: P_{tot} derates linearly with 5.5 mW/K above 60 °C.
 For DHVQFN14 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	Max	Unit
V _{CC}	supply voltage		2.3	3.6	V
VI	input voltage	control inputs	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	pin nOE; V_{CC} = 2.3 V to 3.6 V	0	200	ns/V

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 °	Unit	
			Min	Typ <mark>[1]</mark>	Мах	Min	Max	
	HIGH-level input voltage	V _{CC} = 2.3 V to 2.7 V	1.7	-	-	1.7	-	V
		V _{CC} = 3.0 V to 3.6 V	2.0	-	-	2.0	-	V
V _{IL}	LOW-level input voltage	$V_{CC} = 2.3 \text{ V} \text{ to } 2.7 \text{ V}$	-	-	0.7	-	0.7	V
		V _{CC} = 3.0 V to 3.6 V	-	-	0.9	-	0.9	V
l _l	input leakage current	pin nOE; V_I = GND to V_{CC} ; V_{CC} = 3.6 V	-	-	±1.0	-	±20	μA
$I_{S(OFF)}$	OFF-state leakage current	$V_{CC} = 3.6 \text{ V}; \text{ see } \frac{\text{Figure 6}}{1000 \text{ G}}$	-	-	±1	-	±20	μA

4-bit bus switch

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	
I _{S(ON)}	ON-state leakage current	$V_{CC} = 3.6 \text{ V}; \text{ see } \frac{\text{Figure 7}}{100000000000000000000000000000000000$	-	-	±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
ΔI_{CC}	additional supply current		-	-	300	-	2000	μA
CI	input capacitance	pin nOE; V _{CC} = 3.3 V; V _I = 0 V to 3.3 V	-	0.9	-	-	-	pF
$C_{S(OFF)}$	OFF-state capacitance	$V_{CC} = 3.3 \text{ V}; \text{ V}_{I} = 0 \text{ V} \text{ to } 3.3 \text{ V}$	-	5.2	-	-	-	pF
C _{S(ON)}	ON-state capacitance	$V_{CC} = 3.3 \text{ V}; \text{ V}_{I} = 0 \text{ V} \text{ to } 3.3 \text{ V}$	-	14.3	-	-	-	pF

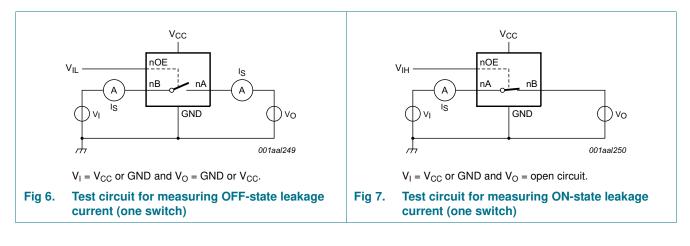
Table 6. Static characteristics ...continued

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

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

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

9.1 Test circuits



9.2 ON resistance

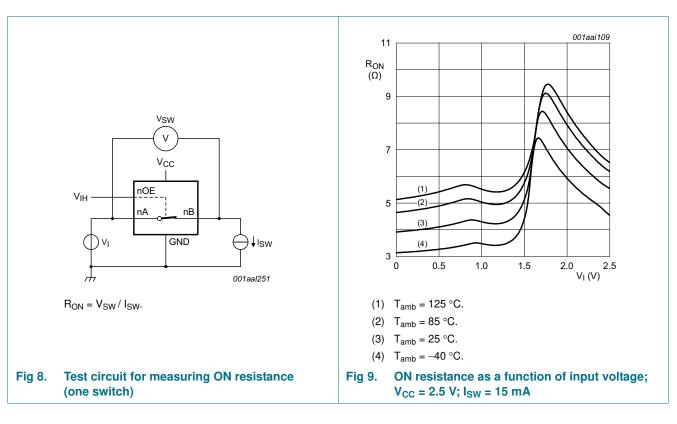
Table 7. Resistance R_{ON}

At recommended operating conditions; voltages are referenced to GND (ground = 0 V); for test circuit see Figure 8.

Symbol	Parameter	Conditions		T _{amb} = -	-40 °C to	+85 °C	T _{amb} = -40 °C	Unit	
				Min	Typ <mark>[1]</mark>	Max	Min	Max	
R _{ON}	ON resistance	$V_{CC} = 2.3 V \text{ to } 2.7 V;$ see Figure 9 to Figure 11	[2]						
		$I_{SW} = 64 \text{ mA}; V_I = 0 \text{ V}$		-	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
		$V_{CC} = 3.0 V \text{ to } 3.6 V;$ see Figure 12 to Figure 14							
		I _{SW} = 64 mA; V _I = 0 V		-	4.0	7.0	-	11.0	Ω
		$I_{SW} = 24 \text{ mA}; V_I = 0 \text{ V}$		-	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.



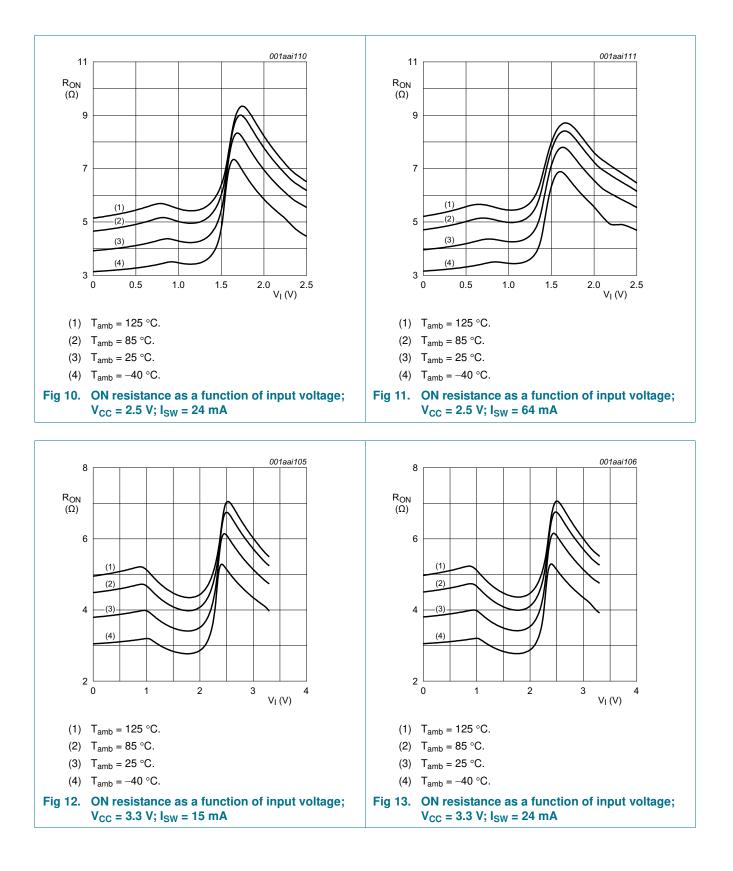
9.3 ON resistance test circuit and graphs

6 of 18

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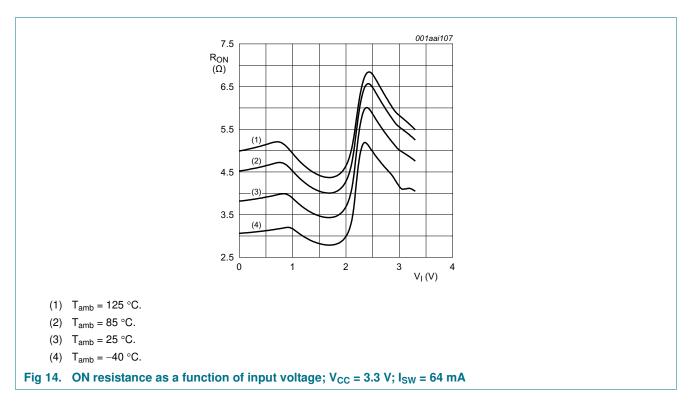
4-bit bus switch



NXP Semiconductors

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4-bit bus switch



10. Dynamic characteristics

Table 8. Dynamic characteristics

GND = 0 V; for test circuit see Figure 17

Symbol	Parameter	Conditions	T _{amb} =	–40 °C to	+85 °C	T _{amb} = -40 °	Unit	
			Min	Typ <mark>[1]</mark>	Max	Min	Max	
t _{pd}	propagation delay	nA to nB or nB to nA; [2]3 see Figure 15						
		V _{CC} = 2.3 V to 2.7 V	-	-	0.13	-	0.20	ns
		V _{CC} = 3.0 V to 3.6 V	-	-	0.20	-	0.31	ns
t _{en}	enable time	nOE to nA or nB; [4] see Figure 16						
		V _{CC} = 2.3 V to 2.7 V	1.0	2.5	4.5	1.0	6.0	ns
		V _{CC} = 3.0 V to 3.6 V	1.0	2.2	4.2	1.0	6.0	ns
t _{dis}	disable time	nOE to nA or nB; [5] see Figure 16						
		$V_{CC} = 2.3 \text{ V} \text{ to } 2.7 \text{ V}$	1.0	2.6	4.7	1.0	6.5	ns
		V _{CC} = 3.0 V to 3.6 V	1.0	3.4	4.8	1.0	6.5	ns

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



4-bit bus switch

11. Waveforms

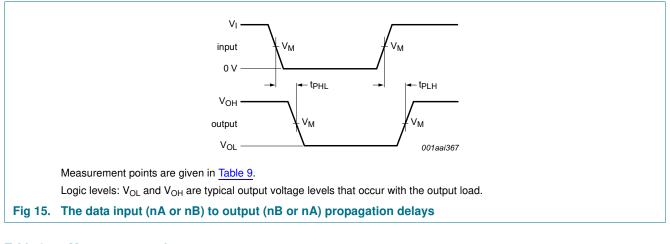
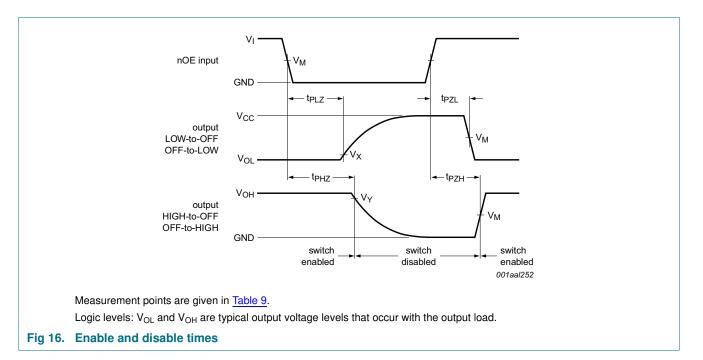


Table 9.Measurement points

Supply voltage	Input	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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4-bit bus switch

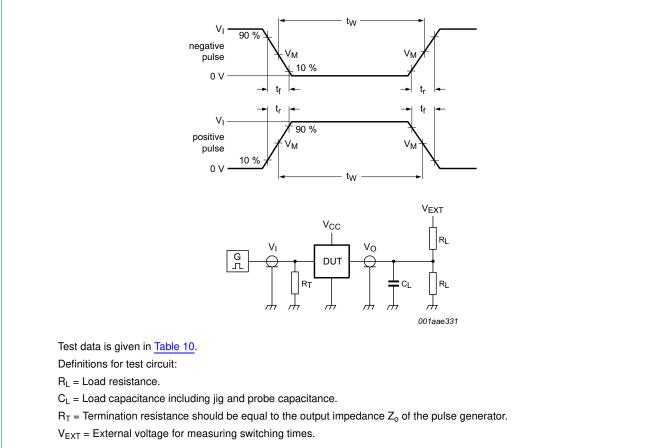


Fig 17. Test circuit for measuring switching times

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}	

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	Мах	
f _(-3dB)	–3 dB frequency response	V_{CC} = 3.3 V; R_L = 50 Ω ; see <u>Figure 18</u>	[1]	-	406	-	MHz

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

11.2 Test circuit

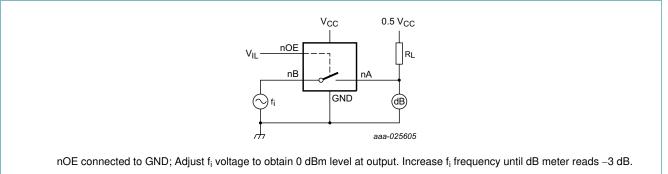


Fig 18. Test circuit for measuring the frequency response when channel is in ON-state

4-bit bus switch

12. Package outline

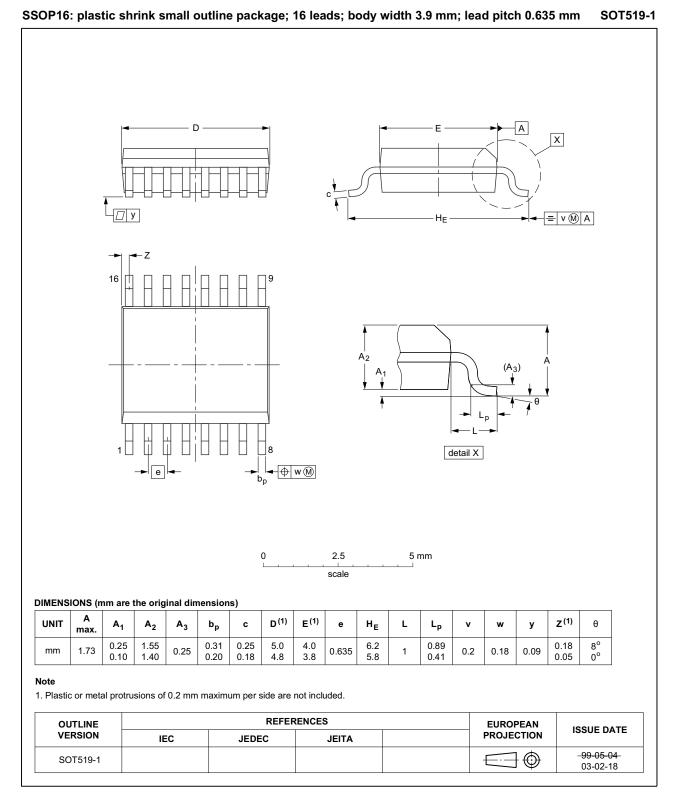


Fig 19. Package outline SOT519-1 (SSOP16)

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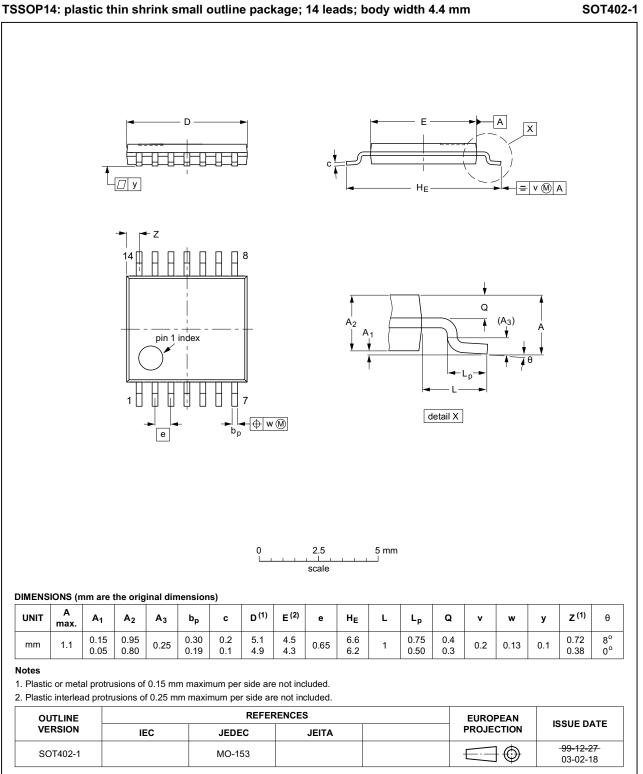
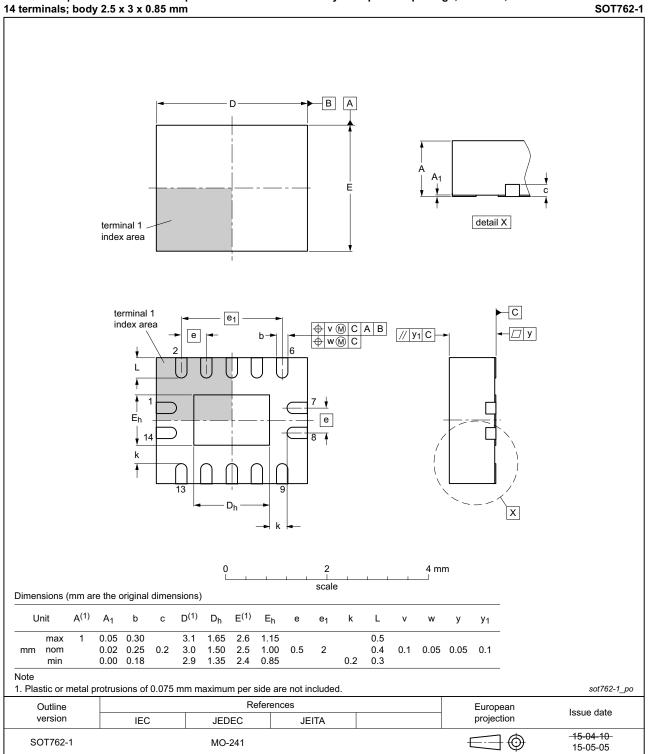


Fig 20. Package outline SOT402-1 (TSSOP14)



DHVQFN14: plastic dual in-line compatible thermal enhanced very thin quad flat package; no leads;

Fig 21. Package outline SOT762-1 (DHVQFN14)

74CBTLV3126 Product data sheet



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	
MM	Machine Model	

14. Revision history

Table 13. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes	
74CBTLV3126 v.4	20161108	Product data sheet	-	74CBTLV3126 v.3	
Modifications:	• Section 11.1	<u>Section 11.1</u> and <u>Section 11.2</u> added.			
74CBTLV3126 v.3	20111215	Product data sheet	-	74CBTLV3126 v.2	
Modifications:	Legal pages updated.				
74CBTLV3126 v.2	20110104	Product data sheet	-	74CBTLV3126 v.1	
74CBTLV3126 v.1	20100105	Product data sheet	-	-	

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4-bit bus switch

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17. Contents

1	General description	1
2	Features and benefits	1
3	Ordering information	2
4		2
5	Pinning information	3
5.1		3
5.2		3
6	Functional description	3
7	Limiting values	4
8	Recommended operating conditions	4
9	Static characteristics	4
9.1		5
9.2		6
9.3	ON resistance test circuit and graphs	6
10	Dynamic characteristics	8
10 11	Dynamic characteristics	-
11 11.1	Waveforms	9
11	Waveforms Additional dynamic characteristics 1 Test circuits 1	9
11 11.1	Waveforms Additional dynamic characteristics 1 Test circuits 1	9 1
11 11.1 11.2	Waveforms 1 Additional dynamic characteristics 1 Test circuits 1 Package outline 1	9 1 1
11 11.1 11.2 12	Waveforms 1 Additional dynamic characteristics 1 Test circuits 1 Package outline 1 Abbreviations 1	9 1 1 2
11 11.1 11.2 12 13	WaveformsAdditional dynamic characteristics1Test circuits1Package outline1Abbreviations1Revision history1	9 1 1 2 5
11 11.1 11.2 12 13 14 15 15.1	WaveformsAdditional dynamic characteristics1Test circuits1Package outline1Abbreviations1Revision history1Legal information1	9 1 1 2 5 5
11 11.1 11.2 12 13 14 15 15.1 15.2	WaveformsAdditional dynamic characteristics1Test circuits1Package outline1Abbreviations1Revision history1Legal information1Data sheet status1Definitions1	9 1 1 2 5 6 6 6
11 11.1 11.2 12 13 14 15 15.1 15.2 15.3	WaveformsAdditional dynamic characteristics1Test circuits1Package outline1Abbreviations1Legal information1Data sheet status1Definitions1Disclaimers1	9 1 1 2 5 5 6 6 6 6
11 11.1 11.2 12 13 14 15 15.1 15.2 15.3 15.4	WaveformsAdditional dynamic characteristics1Test circuits1Package outline1Abbreviations1Revision history1Legal information1Data sheet status1Definitions1Disclaimers1Trademarks1	9 1 1 2 5 5 6 6 6 6 7
11 11.1 11.2 12 13 14 15 15.1 15.2 15.3	WaveformsAdditional dynamic characteristics1Test circuits1Package outline1Abbreviations1Legal information1Data sheet status1Definitions1Disclaimers1	9 11 2 5 6 6667 7

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