

# CBT3253A

## Dual 1-of-4 FET multiplexer/demultiplexer

Rev. 5 — 9 May 2017

Product data sheet

## 1 General description

The CBT3253A is a dual 1-of-4 high-speed TTL-compatible FET multiplexer/demultiplexer. 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 the output enable input ( $\overline{nOE}$ ) is LOW, the 1-of-4 multiplexer/demultiplexer is enabled. The data path is selected by the select control inputs (S0, S1). When  $\overline{nOE}$  is HIGH, the 1-of-4 multiplexer/demultiplexer is disabled. The switch terminals are in the high impedance OFF-state, independent of S0 and S1.

The CBT3253A is characterized for operation from  $-40\text{ }^{\circ}\text{C}$  to  $+85\text{ }^{\circ}\text{C}$ .

## 2 Features and benefits

- $5\ \Omega$  switch connection between two ports
- TTL-compatible input levels
- Minimal propagation delay through the switch
- Latch-up protection exceeds 100 mA per JEDEC standard JESD78 class II level A
- ESD protection:
  - HBM JESD22-A114E exceeds 2000 V
  - MM JESD22-A115-A exceeds 200 V
  - CDM JESD22-C101C exceeds 1000 V
- Multiple package options
- Specified from  $-40\text{ }^{\circ}\text{C}$  to  $+85\text{ }^{\circ}\text{C}$

## 3 Ordering information

Table 1. Ordering information

Type number	Temperature range	Package		
		Name	Description	Version
CBT3253AD	$-40\text{ }^{\circ}\text{C}$ to $+85\text{ }^{\circ}\text{C}$	SO16	plastic small outline package; 16 leads; body width 3.9 mm	SOT109-1
CBT3253ADB	$-40\text{ }^{\circ}\text{C}$ to $+85\text{ }^{\circ}\text{C}$	SSOP16	plastic shrink small outline package; 16 leads; body width 5.3 mm	SOT338-1
CBT3253ADS	$-40\text{ }^{\circ}\text{C}$ to $+85\text{ }^{\circ}\text{C}$	SSOP16 <sup>[1]</sup>	plastic shrink small outline package; 16 leads; body width 3.9 mm; lead pitch 0.635 mm	SOT519-1
CBT3253APW	$-40\text{ }^{\circ}\text{C}$ to $+85\text{ }^{\circ}\text{C}$	TSSOP16	plastic thin shrink small outline package; 16 leads; body width 4.4 mm	SOT403-1

[1] Also known as QSOP16.

### 4 Functional diagram

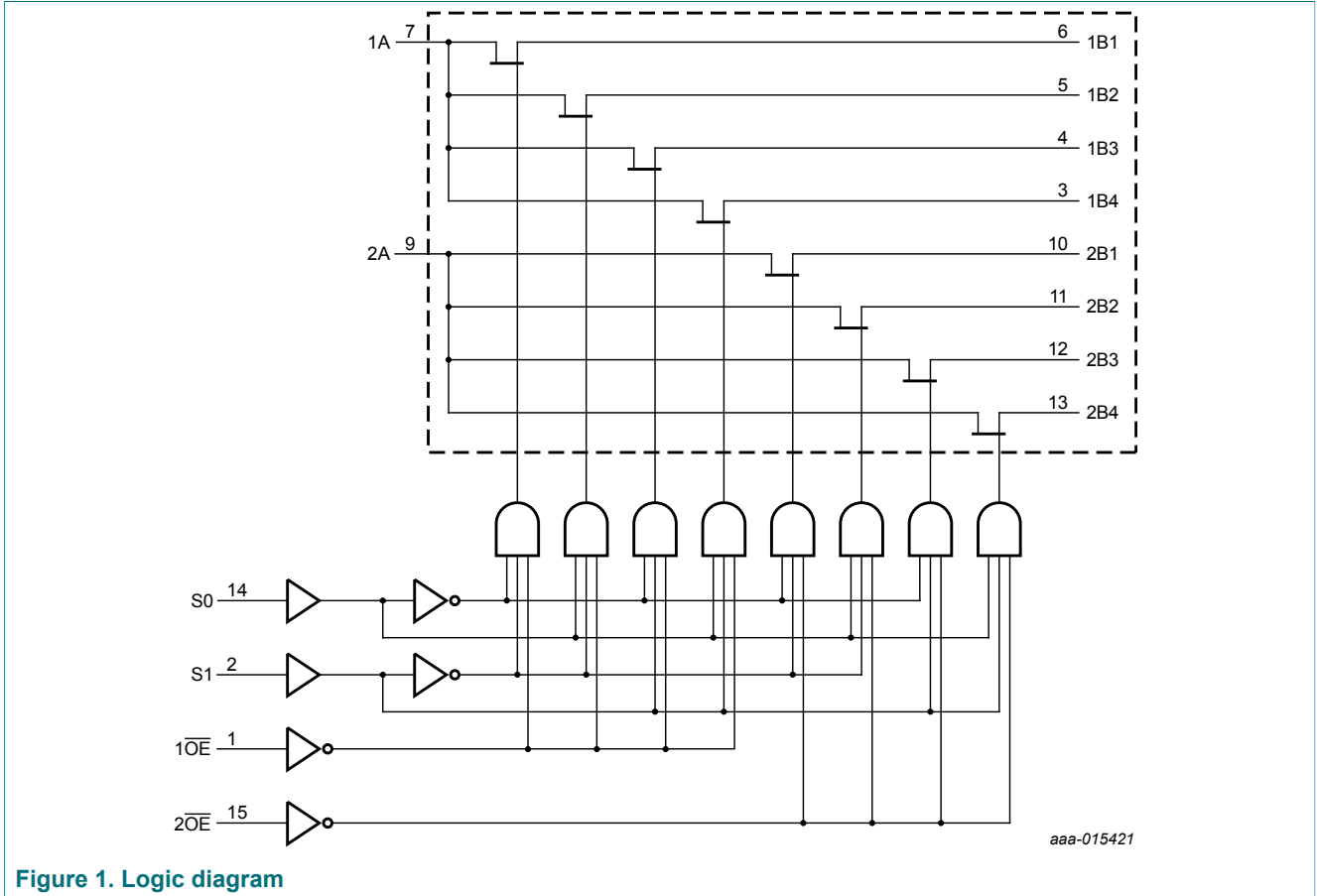
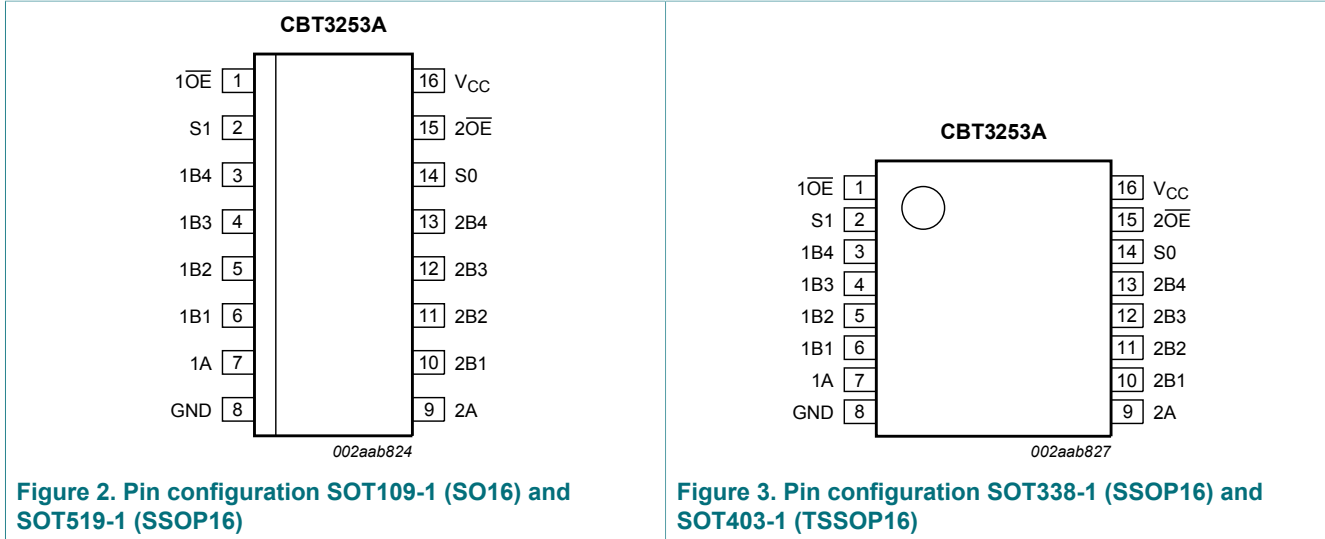


Figure 1. Logic diagram

## 5 Pinning information

### 5.1 Pinning



### 5.2 Pin description

Table 2. Pin description

Symbol	Pin	Description
1OE, 2OE	1, 15	output enable (active LOW)
S1, S0	2, 14	select control input
1B4, 1B3, 1B2, 1B1	3, 4, 5, 6	1B outputs/inputs
1A	7	1A input/output
GND	8	ground (0 V)
2A	9	2A input/output
2B1, 2B2, 2B3, 2B4	10, 11, 12, 13	2B outputs/inputs
VCC	16	positive supply voltage

## 6 Functional description

Table 3. Function selection <sup>[1]</sup>

Inputs				Switch
1OE	2OE	S1	S0	
X	H	X	X	disconnect 2A to 2Bn
H	X	X	X	disconnect 1A to 1Bn
L	L	L	L	1A to 1B1 and 2A to 2B1
L	L	L	H	1A to 1B2 and 2A to 2B2
L	L	H	L	1A to 1B3 and 2A to 2B3
L	L	H	H	1A to 1B4 and 2A to 2B4

[1] H = HIGH voltage level; L = LOW voltage level; X = Don't care.

## 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	+7.0	V
V <sub>I</sub>	input voltage	<sup>[1]</sup>	-0.5	+7.0	V
I <sub>SW</sub>	switch current	continuous current through each switch	-	128	mA
I <sub>IK</sub>	input clamping current	V <sub>I</sub> < 0 V	-50	-	mA
T <sub>stg</sub>	storage temperature		-65	+150	°C
P <sub>tot</sub>	total power dissipation	T <sub>amb</sub> = -40 °C to +85 °C			
		SO16 package <sup>[2]</sup>	-	500	mW
		SSOP16 package <sup>[3]</sup>	-	500	mW
		TSSOP16 package <sup>[3]</sup>	-	500	mW

[1] The input and output negative voltage ratings may be exceeded if the input and output clamp current ratings are observed.

[2] For SO16 package: P<sub>tot</sub> derates linearly with 8 mW/K above 70 °C.

[3] For SSOP16 and TSSOP16 package: P<sub>tot</sub> derates linearly with 5.5 mW/K above 70 °C.

## 8 Recommended operating conditions

Table 5. Operating conditions

All unused control inputs of the device must be held at V<sub>CC</sub> or GND to ensure proper device operation.

Symbol	Parameter	Conditions	Min	Max	Unit
V <sub>CC</sub>	supply voltage		4.5	5.5	V
V <sub>IH</sub>	HIGH-level input voltage		2.0	-	V
V <sub>IL</sub>	LOW-level input voltage		-	0.8	V
T <sub>amb</sub>	ambient temperature	operating in free-air	-40	+85	°C

## 9 Static characteristics

**Table 6. Static characteristics**

At recommended operating conditions. Voltages are referenced to GND (ground = 0 V).  $T_{amb} = -40\text{ °C to }+85\text{ °C}$ .

Symbol	Parameter	Conditions	Min	Typ <sup>[1]</sup>	Max	Unit
$V_{IK}$	input clamping voltage	$V_{CC} = 4.5\text{ V}; I_I = -18\text{ mA}$	-	-	-1.2	V
$V_{pass}$	pass voltage	$V_I = V_{CC} = 5.0\text{ V}; I_O = -100\text{ }\mu\text{A}$	3.6	3.9	4.2	V
$I_I$	input leakage current	$V_{CC} = 5.5\text{ V}; V_I = \text{GND or } 5.5\text{ V}$	-	-	$\pm 1$	$\mu\text{A}$
$I_{CC}$	supply current	$V_{CC} = 5.5\text{ V}; I_O = 0\text{ mA}; V_I = V_{CC}\text{ or GND}$	-	-	3	$\mu\text{A}$
$\Delta I_{CC}$	additional supply current	per input; $V_{CC} = 5.5\text{ V};$ one input at 3.4 V, other inputs at $V_{CC}$ or GND <sup>[2]</sup>	-	-	2.5	mA
$C_I$	input capacitance	control pins; $V_I = 3\text{ V or } 0\text{ V}$	-	4.5	-	pF
$C_{io(off)}$	off-state input/output capacitance	A port; $V_O = 3\text{ V or } 0\text{ V}; n\overline{OE} = V_{CC}$	-	11.4	-	pF
		B port; $V_O = 3\text{ V or } 0\text{ V}; n\overline{OE} = V_{CC}$	-	3.8	-	pF
$C_{io(on)}$	on-state input/output capacitance	A port and B port	-	18.6	-	pF
$R_{ON}$	ON resistance	$V_{CC} = 4.5\text{ V}$ <sup>[3]</sup>				
		$V_I = 0\text{ V}; I_I = 64\text{ mA}$	-	5	7	$\Omega$
		$V_I = 0\text{ V}; I_I = 30\text{ mA}$	-	5	7	$\Omega$
		$V_I = 2.4\text{ V}; I_I = -15\text{ mA}$	-	10	15	$\Omega$

[1] All typical values are measured at  $V_{CC} = 5\text{ V}; T_{amb} = 25\text{ °C}$ .

[2] This is the increase in supply current for each input that is at the specified TTL voltage level rather than  $V_{CC}$  or GND.

[3] Measured by the voltage drop between the A and the B terminals at the indicated current through the switch. The lowest voltage of the two (A or B) terminals determines the ON resistance.

## 10 Dynamic characteristics

**Table 7. Dynamic characteristics**

$T_{amb} = -40\text{ °C to }+85\text{ °C}; V_{CC} = 4.5\text{ V to } 5.5\text{ V};$  for test circuit, see [Figure 6](#).

Symbol	Parameter	Conditions	Min	Max	Unit
$t_{pd}$	propagation delay	Sn to nA; see <a href="#">Figure 4</a> <sup>[1] [2]</sup>	1.2	6.2	ns
		nA to nBn or nBn to nA; see <a href="#">Figure 4</a> <sup>[1] [2]</sup>	-	0.25	ns
$t_{en}$	enable time	Sn to nBn; see <a href="#">Figure 5</a> <sup>[3]</sup>	1.3	6.3	ns
		n $\overline{OE}$ to nA or nBn; see <a href="#">Figure 5</a> <sup>[3]</sup>	1.4	6.4	ns
$t_{dis}$	disable time	Sn to nBn; see <a href="#">Figure 5</a> <sup>[4]</sup>	1.1	7.2	ns
		n $\overline{OE}$ to nA or nBn; see <a href="#">Figure 5</a> <sup>[4]</sup>	1.0	7	ns

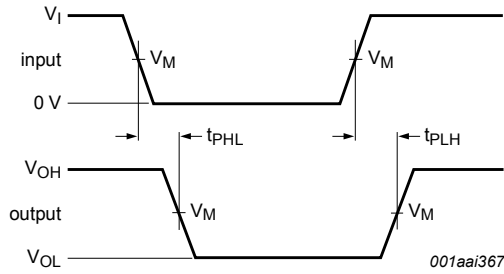
[1] This parameter is warranted but not production tested. The propagation delay is based on the RC time constant of the typical ON resistance of the switch and a load capacitance, when driven by an ideal voltage source (zero output impedance).

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

[3]  $t_{PZL}$  and  $t_{PZH}$  are the same as  $t_{en}$ .

[4]  $t_{PLZ}$  and  $t_{PHZ}$  are the same as  $t_{dis}$ .

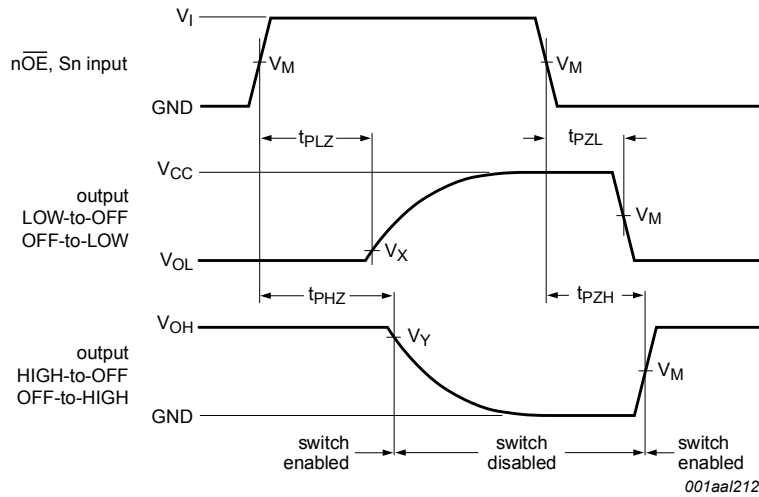
10.1 Waveforms and test circuit



Measurement points are given in [Table 8](#).

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

Figure 4. The input (nA; nBn) to output (nBn; nA) or input (Sn) to output (nA) propagation delay times



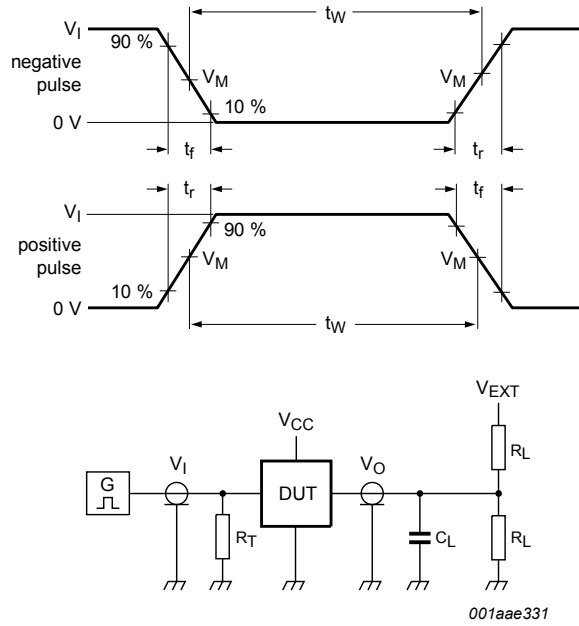
Measurement points are given in [Table 8](#).

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

Figure 5. Enable and disable times

Table 8. Measurement points

Supply voltage	Input		Output		
$V_{CC}$	$V_I$	$V_M$	$V_M$	$V_X$	$V_Y$
4.5 V to 5.5 V	GND to 3.0 V	1.5 V	1.5 V	$V_{OL} + 0.3 V$	$V_{OH} - 0.3 V$



Test data is given in [Table 9](#).

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.

**Figure 6. Test circuit for measuring switching times**

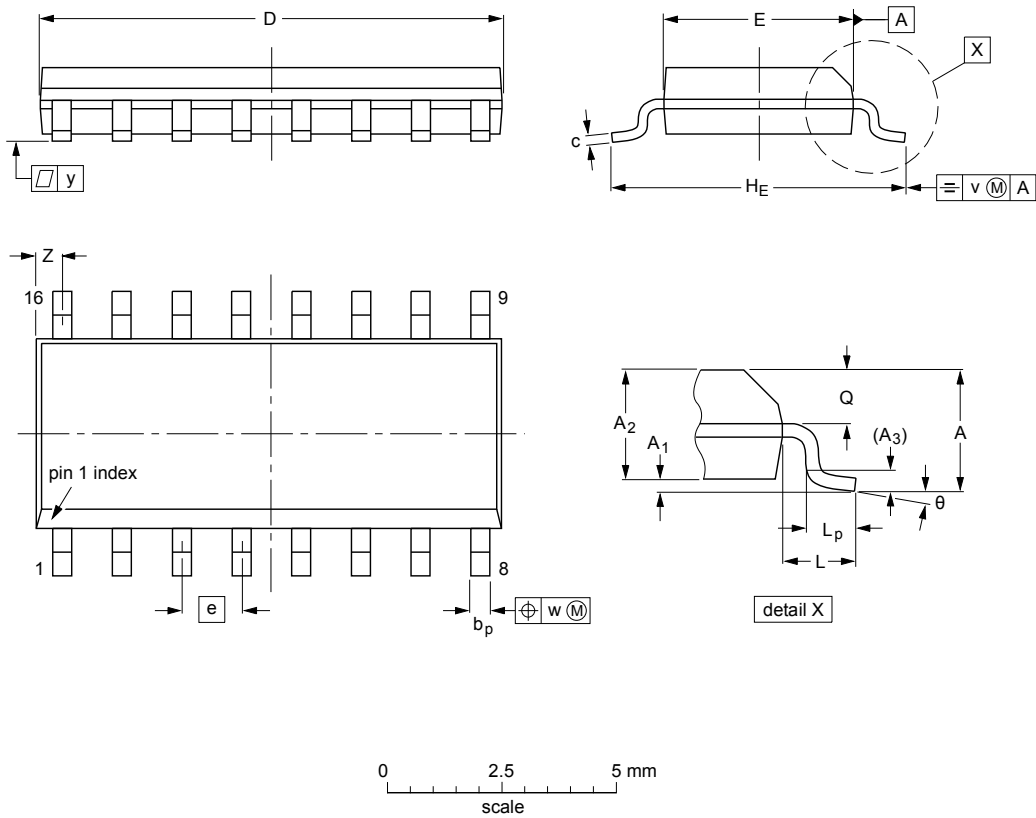
**Table 9. Test data**

Supply voltage	Input		Load		$V_{EXT}$		
$V_{CC}$	$V_I$	$t_r, t_f$	$C_L$	$R_L$	$t_{PLH}, t_{PHL}$	$t_{PLZ}, t_{PZL}$	$t_{PHZ}, t_{PZH}$
4.5 V to 5.5 V	GND to 3.0 V	$\leq 2.5$ ns	50 pF	500 $\Omega$	open	7.0 V	open

11 Package outline

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

SOT109-1



DIMENSIONS (inch dimensions are derived from the original mm dimensions)

UNIT	A max.	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	b <sub>p</sub>	c	D <sup>(1)</sup>	E <sup>(1)</sup>	e	H <sub>E</sub>	L	L <sub>p</sub>	Q	v	w	y	Z <sup>(1)</sup>	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° 0°
inches	0.069	0.010 0.004	0.057 0.049	0.01	0.019 0.014	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	

Note

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

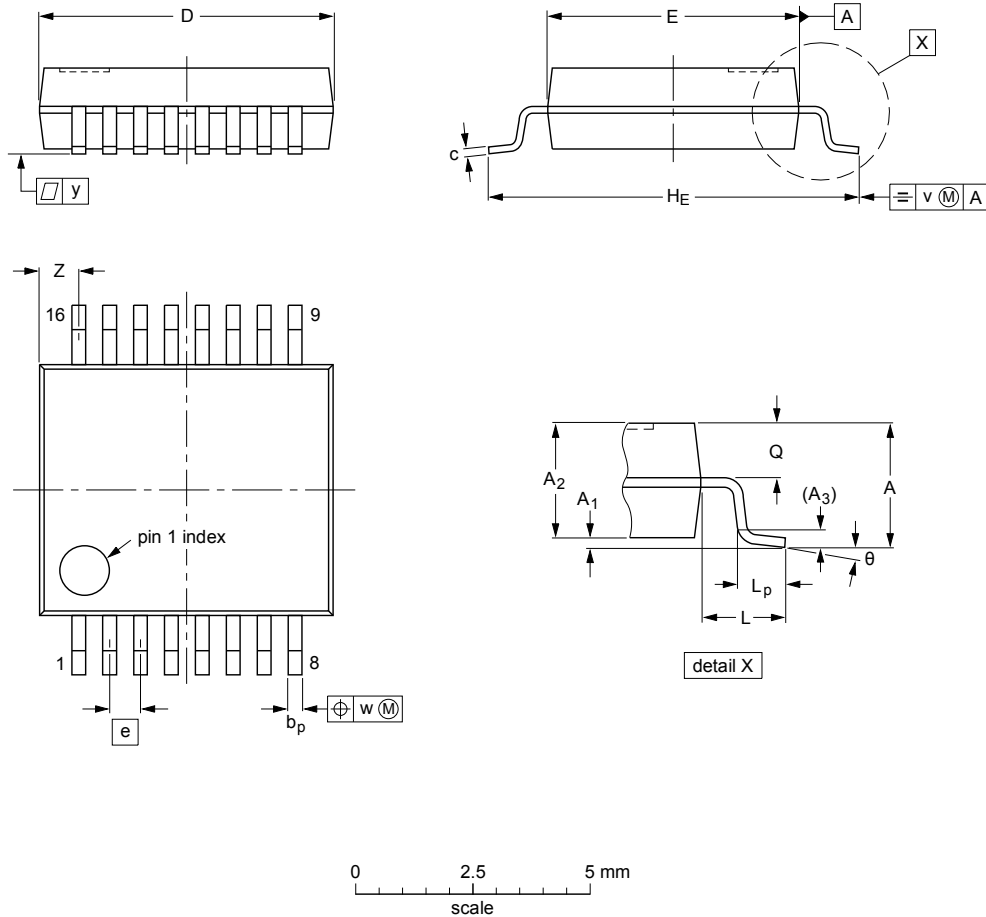
OUTLINE VERSION	REFERENCES			EUROPEAN PROJECTION	ISSUE DATE
	IEC	JEDEC	JEITA		
SOT109-1	076E07	MS-012			99-12-27 03-02-19

Figure 7. Package outline SOT109-1 (SO16)



SSOP16: plastic shrink small outline package; 16 leads; body width 5.3 mm

SOT338-1



**DIMENSIONS (mm are the original dimensions)**

UNIT	A <sub>max.</sub>	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	b <sub>p</sub>	c	D <sup>(1)</sup>	E <sup>(1)</sup>	e	H <sub>E</sub>	L	L <sub>p</sub>	Q	v	w	y	z <sup>(1)</sup>	θ
mm	2	0.21 0.05	1.80 1.65	0.25	0.38 0.25	0.20 0.09	6.4 6.0	5.4 5.2	0.65	7.9 7.6	1.25	1.03 0.63	0.9 0.7	0.2	0.13	0.1	1.00 0.55	8° 0°

**Note**

1. Plastic or metal protrusions of 0.25 mm maximum per side are not included.

OUTLINE VERSION	REFERENCES				EUROPEAN PROJECTION	ISSUE DATE
	IEC	JEDEC	JEITA			
SOT338-1		MO-150				99-12-27 03-02-19

Figure 8. Package outline SOT338-1 (SSOP16)

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

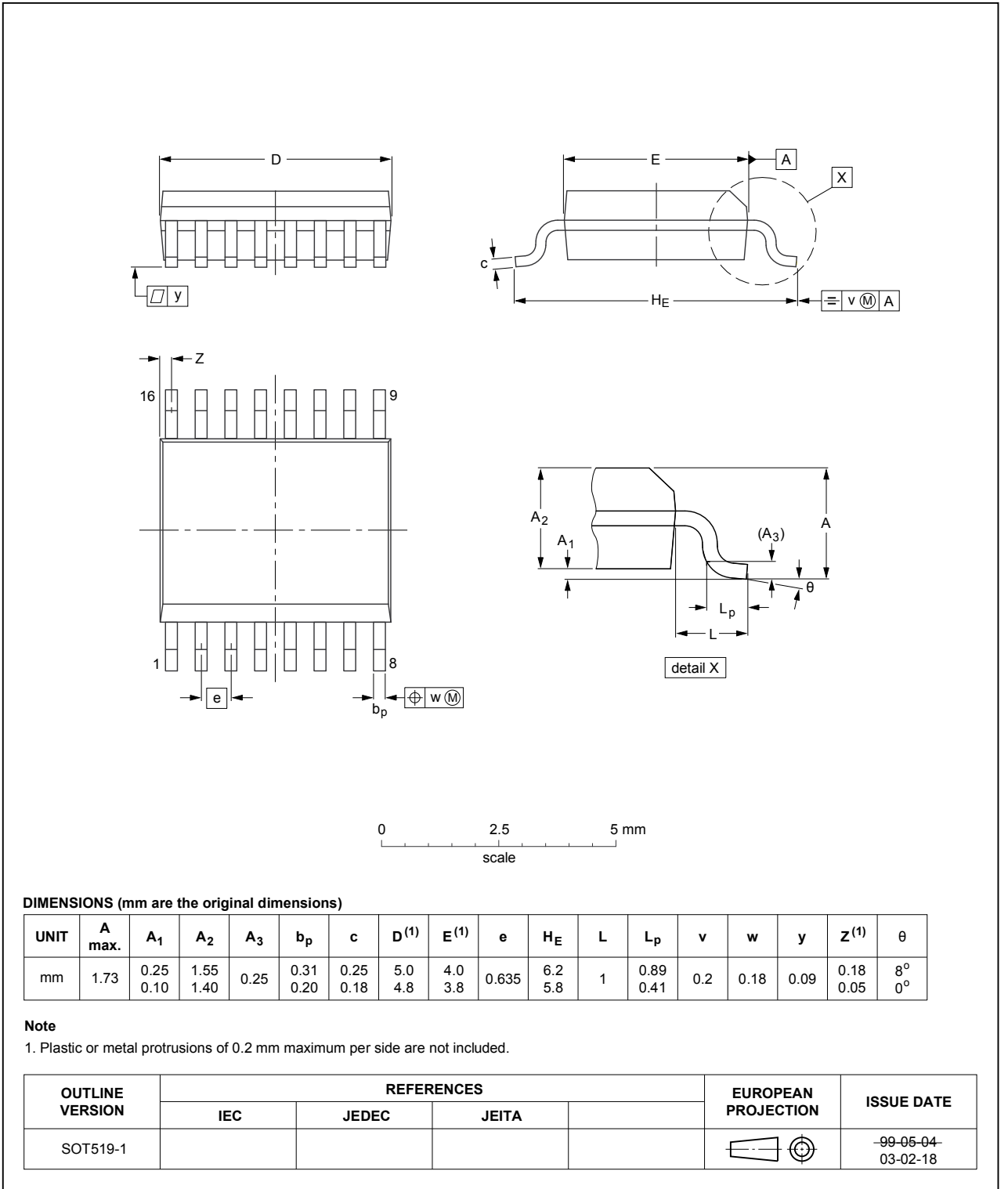
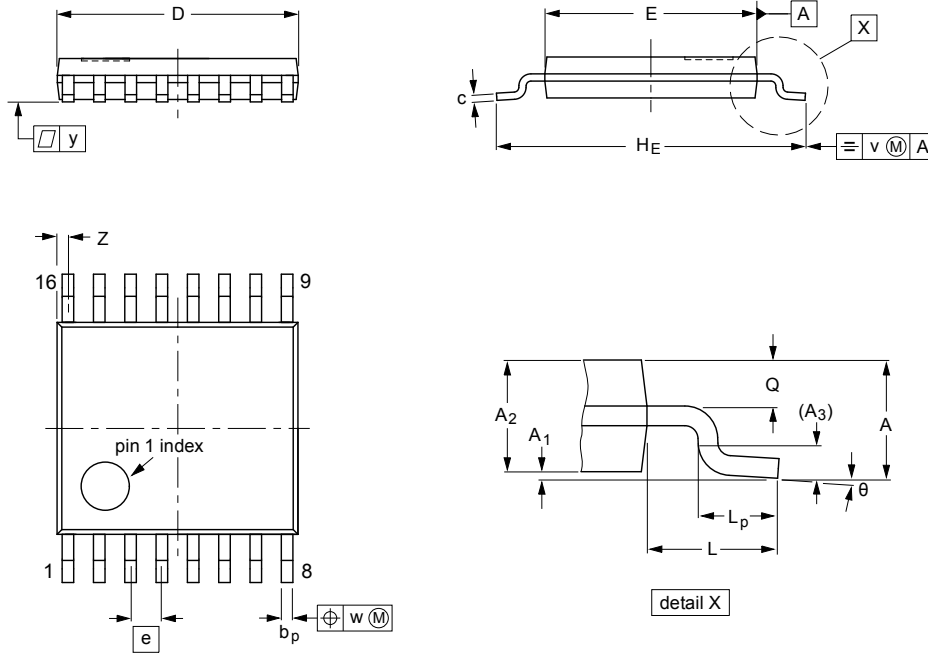


Figure 9. Package outline SOT519-1 (SSOP16)

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

SOT403-1



**DIMENSIONS (mm are the original dimensions)**

UNIT	A <sub>max.</sub>	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	b <sub>p</sub>	c	D <sup>(1)</sup>	E <sup>(2)</sup>	e	H <sub>E</sub>	L	L <sub>p</sub>	Q	v	w	y	Z <sup>(1)</sup>	θ
mm	1.1	0.15 0.05	0.95 0.80	0.25	0.30 0.19	0.2 0.1	5.1 4.9	4.5 4.3	0.65	6.6 6.2	1	0.75 0.50	0.4 0.3	0.2	0.13	0.1	0.40 0.06	8° 0°

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

Figure 10. Package outline SOT403-1 (TSSOP16)

## 12 Abbreviations

Table 10. Abbreviations

Acronym	Description
CDM	Charged Device Model
DUT	Device Under Test
ESD	ElectroStatic Discharge
HBM	Human Body Model
MM	Machine Model
TTL	Transistor-Transistor Logic

## 13 Revision history

Table 11. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
CBT3253A v.5	20170509	Product data sheet	-	CBT3253A v.4
Modifications:	<ul style="list-style-type: none"> <li>The format of this data sheet has been redesigned to comply with the identity guidelines of Nexperia.</li> <li>Legal texts have been adapted to the new company name where appropriate.</li> </ul>			
CBT3253A v.4	20141031	Product data sheet	-	CBT3253A v.3
Modifications:	<ul style="list-style-type: none"> <li><a href="#">Section 1</a>: text changed to align with the function of the device.</li> <li><a href="#">Figure 1</a>: schematic changed..</li> <li><a href="#">Section 6</a>: switch description changed to align with the function of the device.</li> <li><a href="#">Table 7</a>: typo corrected, the conditions for enable and disable times are swapped.</li> </ul>			
CBT3253A v.3	20130924	Product data sheet	-	CBT3253A v.2
Modifications:	<a href="#">Section 9</a> values for pass voltage modified.			
CBT3253A v.2	20070208	Product data sheet	-	CBT3253A v.1
CBT3253A v.1	20051024	Product data sheet	-	-

## 14 Legal information

### 14.1 Data sheet status

Document status <sup>[1][2]</sup>	Product status <sup>[3]</sup>	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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Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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