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Kind regards,

Team Nexperia

# **CBT3253A**

# Dual 1-of-4 FET multiplexer/demultiplexer Rev. 4 — 31 October 2014

**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  $(n\overline{OE})$  is LOW, the 1-of-4 multiplexer/demultiplexer is enabled. The data path is selected by the select control inputs (S0, S1). When 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 °C to +85 °C.

#### 2. **Features and benefits**

- 5 Ω 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 °C to +85 °C



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

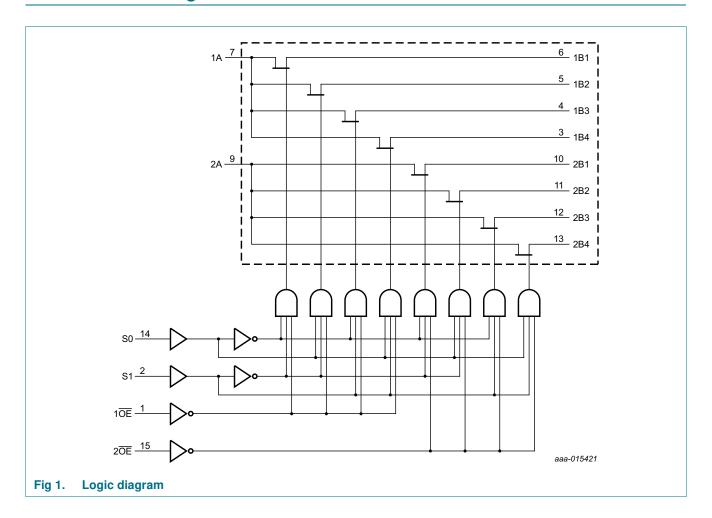
### 3. Ordering information

Table 1. Ordering information

Type number	Temperature range	Package						
		Name	Description	Version				
CBT3253AD	–40 °C to +85 °C	SO16	plastic small outline package; 16 leads; body width 3.9 mm	SOT109-1				
CBT3253ADB	–40 °C to +85 °C	SSOP16	plastic shrink small outline package; 16 leads; body width 5.3 mm	SOT338-1				
CBT3253ADS	–40 °C to +85 °C	SSOP16 <sup>11</sup>	plastic shrink small outline package; 16 leads; body width 3.9 mm; lead pitch 0.635 mm	SOT519-1				
CBT3253APW	–40 °C to +85 °C	TSSOP16	plastic thin shrink small outline package; 16 leads; body width 4.4 mm	SOT403-1				

<sup>[1]</sup> Also known as QSOP16.

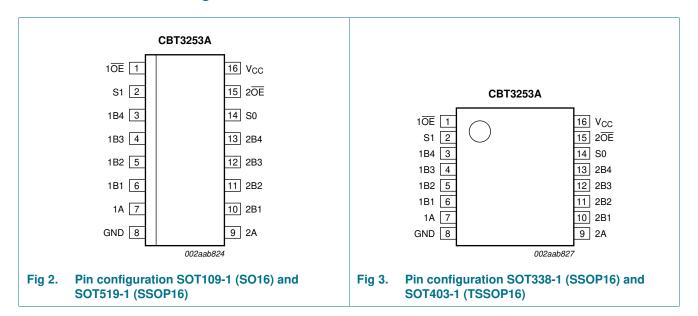
### 4. Functional diagram



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

### 5. Pinning information

#### 5.1 Pinning



#### 5.2 Pin description

Table 2. Pin description

Symbol	Pin	Description			
1 <del>OE</del> , 2 <del>OE</del>	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			
V <sub>CC</sub>	16	positive supply voltage			

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

### 6. Functional description

Table 3. Function selection

 $H = HIGH \ voltage \ level; \ L = LOW \ voltage \ level; \ X = Don't \ care.$ 

Inputs	nputs			Switch
10E 20E S1 S0				
Χ	Н	Х	Х	disconnect 2A to 2Bn
Н	Х	Х	Х	disconnect 1A to 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).

Symbol	Parameter	Conditions	Min	Max	Unit
V <sub>CC</sub>	supply voltage		-0.5	+7.0	V
VI	input voltage	[1]	-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>1</sub> < 0 V	-50	-	mA
T <sub>stg</sub>	storage temperature		-65	+150	°C
P <sub>tot</sub>	total power dissipation	$T_{amb} = -40  ^{\circ}\text{C} \text{ to } +85  ^{\circ}\text{C}$			
		SO16 package	-	500	mW
		SSOP16 package	-	500	mW
		TSSOP16 package	-	500	mW

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

### 8. Recommended operating conditions

#### Table 5. Operating conditions

All unused control inputs of the device must be held at  $V_{CC}$  or GND to ensure proper device operation.

Symbol	Parameter	Conditions	Min	Max	Unit
$V_{CC}$	supply voltage		4.5	5.5	V
V <sub>IH</sub>	HIGH-level input voltage		2.0	-	V
$V_{IL}$	LOW-level input voltage		-	0.8	٧
T <sub>amb</sub>	ambient temperature	operating in free-air	-40	+85	°C

<sup>[2]</sup> For SO16 package:  $P_{tot}$  derates linearly with 8 mW/K above 70 °C.

<sup>[3]</sup> For SSOP16 and TSSOP16 package:  $P_{tot}$  derates linearly with 5.5 mW/K above 70 °C.

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

#### 9. Static characteristics

#### Table 6. Static characteristics

 $T_{amb} = -40$  °C to +85 °C.

Symbol	Parameter	Conditions	Min	Typ[1]	Max	Unit
V <sub>IK</sub>	input clamping voltage	$V_{CC} = 4.5 \text{ V}; I_I = -18 \text{ mA}$	-	-	-1.2	٧
V <sub>pass</sub>	pass voltage	$V_I = V_{CC} = 5.0 \text{ V}; I_O = -100 \mu\text{A}$	3.6	3.9	4.2	٧
l <sub>l</sub>	input leakage current	V <sub>CC</sub> = 5.5 V; V <sub>I</sub> = GND or 5.5 V	-	-	±1	μΑ
I <sub>CC</sub>	supply current	$V_{CC}$ = 5.5 V; $I_O$ = 0 mA; $V_I$ = $V_{CC}$ or GND	-	-	3	μΑ
Δl <sub>CC</sub>	additional supply current	per input; V <sub>CC</sub> = 5.5 V; one input at 3.4 V, other inputs at V <sub>CC</sub> or GND	-	-	2.5	mA
Cı	input capacitance	control pins; V <sub>I</sub> = 3 V or 0 V	-	4.5	-	pF
C <sub>io(off)</sub>	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 <sub>io(on)</sub>	on-state input/output capacitance	A port and B port	-	18.6	-	pF
R <sub>ON</sub>	ON resistance	V <sub>CC</sub> = 4.5 V		'		
		V <sub>I</sub> = 0 V; I <sub>I</sub> = 64 mA	-	5	7	Ω
		V <sub>I</sub> = 0 V; I <sub>I</sub> = 30 mA	-	5	7	Ω
		V <sub>I</sub> = 2.4 V; I <sub>I</sub> = -15 mA	-	10	15	Ω

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

### 10. Dynamic characteristics

Table 7. Dynamic characteristics

 $T_{amb} = -40 \, ^{\circ}\text{C}$  to +85  $^{\circ}\text{C}$ ;  $V_{CC} = 4.5 \, \text{V}$  to 5.5 V; for test circuit, see <u>Figure 6</u>.

Symbol	Parameter	Conditions		Min	Max	Unit
t <sub>pd</sub>	propagation delay	nA to nBn or nBn to nA; see Figure 4	[1][2]	-	0.25	ns
		Sn to nA; see Figure 4	[1][2]	1.2	6.2	ns
t <sub>en</sub>	enable time	Sn to nBn; see Figure 5	[2]	1.3	6.3	ns
		nOE to nA or nBn; see Figure 5	[2]	1.4	6.4	ns
t <sub>dis</sub>	disable time	Sn to nBn; see Figure 5	[2]	1.1	7.2	ns
		nOE to nA or nBn; see Figure 5	[2]	1.0	7	ns

<sup>[1]</sup> 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).

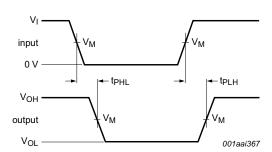
[2]  $t_{PLH}$  and  $t_{PHL}$  are the same as  $t_{pd}$ .  $t_{PZL}$  and  $t_{PZH}$  are the same as  $t_{en}$ .  $t_{PLZ}$  and  $t_{PHZ}$  are the same as  $t_{dis}$ .

<sup>[2]</sup> This is the increase in supply current for each input that is at the specified TTL voltage level rather than V<sub>CC</sub> or GND.

<sup>[3]</sup> 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.

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

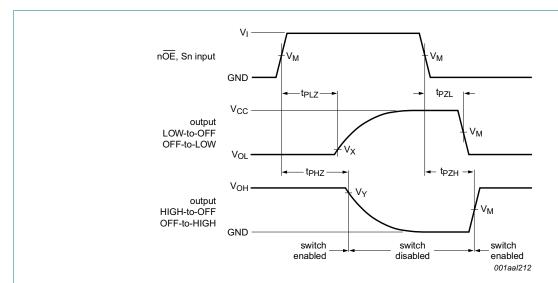
#### 11. AC waveforms



Measurement points are given in Table 8.

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

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



Measurement points are given in <u>Table 8</u>.

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

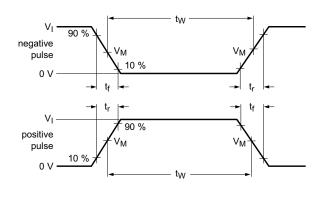
Fig 5. Enable and disable times

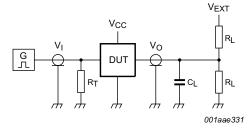
Table 8. Measurement points

Supply voltage	Input		Output				
V <sub>CC</sub>	V <sub>I</sub>	V <sub>M</sub>	V <sub>M</sub>	V <sub>X</sub>	V <sub>Y</sub>		
4.5 V to 5.5 V	GND to 3.0 V	1.5 V	1.5 V	V <sub>OL</sub> + 0.3 V	V <sub>OH</sub> – 0.3 V		

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

### 12. Test information





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  $Z_0$  of the pulse generator.

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

Fig 6. Test circuit for measuring switching times

Table 9. Test data

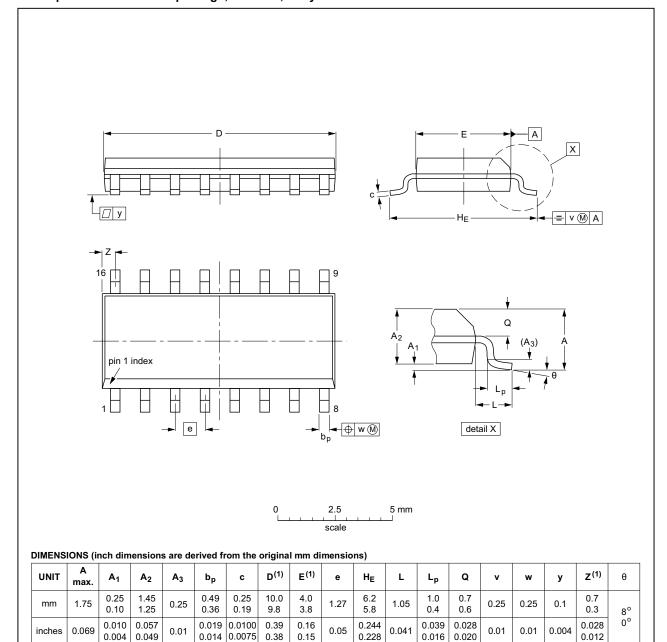
Supply voltage	Input		Load		V <sub>EXT</sub>			
V <sub>CC</sub>	VI	t <sub>r</sub> , t <sub>f</sub>	CL	RL	t <sub>PLH</sub> , t <sub>PHL</sub>	t <sub>PLZ</sub> , t <sub>PZL</sub>	t <sub>PHZ</sub> , t <sub>PZH</sub>	
4.5 V to 5.5 V	GND to 3.0 V	≤ 2.5 ns	50 pF	500 Ω	open	7.0 V	open	

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

### 13. Package outline

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

SOT109-1



## Note

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			<del>99-12-27</del> 03-02-19

Fig 7. Package outline SOT109-1 (SO16)

CBT3253A

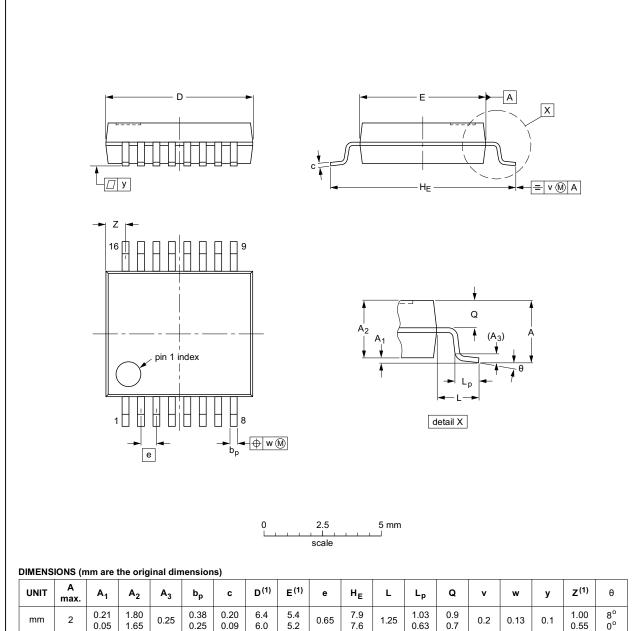
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**CBT3253A NXP Semiconductors** 

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

SOT338-1



UNIT	A max.	A <sub>1</sub>	A <sub>2</sub>	<b>A</b> <sub>3</sub>	b <sub>p</sub>	C	D <sup>(1)</sup>	E <sup>(1)</sup>	е	HE	L	Lp	Q	v	w	у	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°

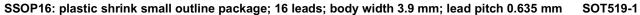
#### Note

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

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

Package outline SOT338-1 (SSOP16) Fig 8.

CBT3253A



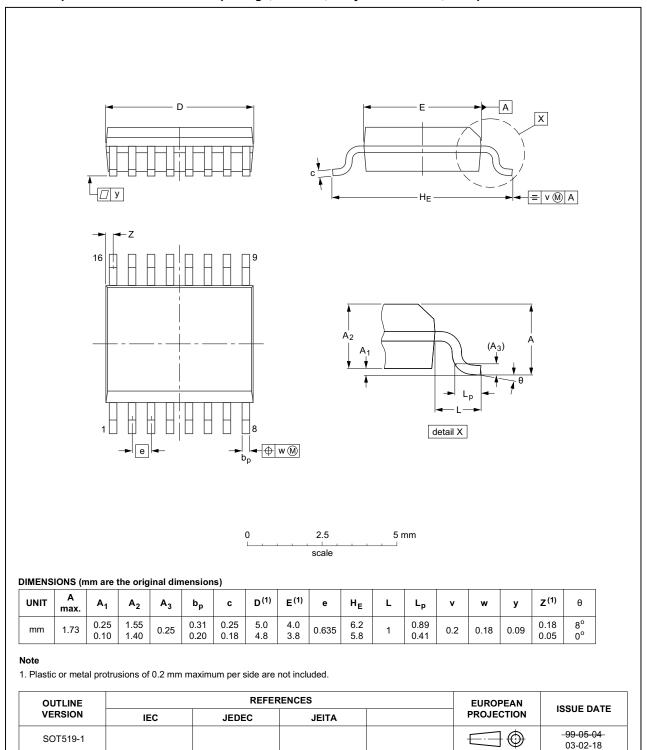


Fig 9. Package outline SOT519-1 (SSOP16)

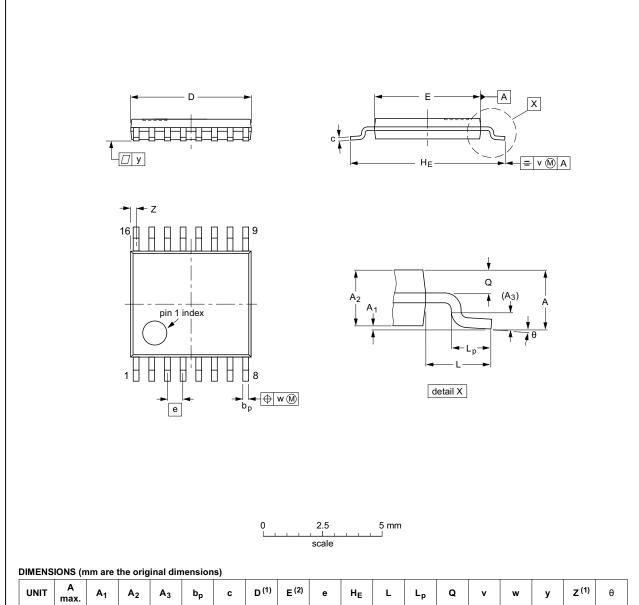
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#### **Dual 1-of-4 FET multiplexer/demultiplexer**

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

SOT403-1



UNI	IT	A max.	<b>A</b> <sub>1</sub>	A <sub>2</sub>	<b>A</b> <sub>3</sub>	b <sub>p</sub>	С	D <sup>(1)</sup>	E (2)	е	HE	L	Lp	Q	٧	w	у	Z <sup>(1)</sup>	θ
mn	n	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		REFER	EUROPEAN	ISSUE DATE			
VERSION	IEC	JEDEC	JEITA		PROJECTION	ISSUE DATE	
SOT403-1	MO-153				<del>-99-12-27</del> 03-02-18		
	I .						-

Fig 10. Package outline SOT403-1 (TSSOP16)

CBT3253/

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

### 14. Abbreviations

#### Table 10. Abbreviations

Acronym	Description
CDM Charged Device Model	
ESD	ElectroStatic Discharge
НВМ	Human Body Model
MM	Machine Model
TTL	Transistor-Transistor Logic

### 15. Revision history

#### Table 11. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
CBT3253A v.4	20141031	Product data sheet	-	CBT3253A v.3
Modifications:	<ul> <li>Section 1 "General description": text changed to align with the function of the device.</li> <li>Figure 1 "Logic diagram": schematic changed</li> <li>Table 3 "Function selection": switch description changed to align with the function of the second selection of the second</li></ul>			
CBT3253A v.3	20130924	Product data sheet	-	CBT3253A v.2
Modifications:	Table 6 "Static characteristics" values for pass voltage modified.			
CBT3253A v.2	20070208	Product data sheet	-	CBT3253A v.1
CBT3253A v.1	20051024	Product data sheet	-	-

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

#### 16. Legal information

#### 16.1 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.
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#### **Dual 1-of-4 FET multiplexer/demultiplexer**

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**CBT3253A NXP Semiconductors** 

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

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