# 74CBTLV3861-Q100

# 10-bit bus switch with output enable

Rev. 1.1 — 28 August 2025

**Product data sheet** 

### 1. General description

The 74CBTLV3861 is a 10-bit bus switch with one output enable  $(\overline{OE})$  input. When  $\overline{OE}$  is LOW, the switch is closed and port A is connected to the B port. When  $\overline{OE}$  is HIGH, the switch is disabled.

To ensure the high-impedance OFF-state during power-up or power-down,  $\overline{\text{OE}}$  should be tied to the  $V_{\text{CC}}$  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.

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

#### 2. Features and benefits

- 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)
- $5 \Omega$  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<sub>OFF</sub> circuitry provides partial Power-down mode operation
- ESD protection:
  - HBM: ANSI/ESDA/JEDEC JS-001 class 2 exceeds 2000 V
  - CDM: ANSI/ESDA/JEDEC JS-002 class C3 exceeds 1000 V
- Specified from -40 °C to +85 °C and -40 °C to +125 °C

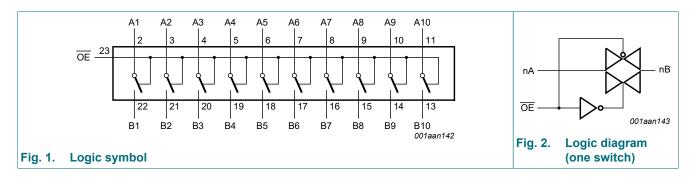


# 3. Ordering information

**Table 1. Ordering information** 

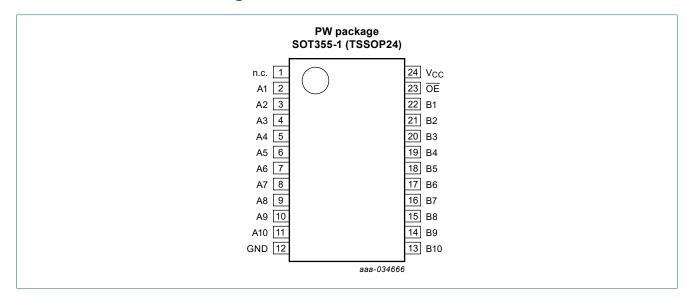
Type number	Package	ackage							
	Temperature range	Name	Description	Version					
74CBTLV3861PW-Q100	-40 °C to +125 °C		plastic thin shrink small outline package; 24 leads; body width 4.4 mm	SOT355-1					

# 4. Functional diagram



# 5. Pinning information

### 5.1. Pinning



# 5.2. Pin description

#### Table 2. Pin description

Symbol	Pin	Description
n.c.	1	not connected
A1, A2, A3, A4, A5, A6, A7, A8, A9, A10	2, 3, 4, 5, 6, 7, 8, 9, 10, 11	data input/output (A port)
GND	12	ground (0 V)
B1, B2, B3, B4, B5, B6, B7, B8, B9, B10	22, 21, 20, 19, 18, 17, 16, 15, 14, 13	data input/output (B port)
ŌĒ	23	output enable input (active LOW)
V <sub>CC</sub>	24	positive supply voltage

# 6. Functional description

#### **Table 3. Function selection**

 $H = HIGH \text{ voltage level}; L = LOW \text{ voltage level}; Z = high-impedance OFF-state.}$ 

Input	Input/output
OE	An, Bn
L	An = Bn
Н	Z

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

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

<sup>[2]</sup> For SOT355-1 (TSSOP24) package:  $P_{tot}$  derates linearly with 12.4 mW/K above 110 °C.

# 8. Recommended operating conditions

Table 5. Recommended operating conditions

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

<sup>[1]</sup> Applies to control signal levels.

### 9. Static characteristics

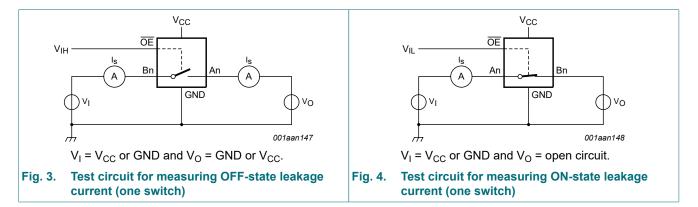
#### **Table 6. Static characteristics**

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

Symbol	Parameter	Conditions	T <sub>amb</sub> =	-40 °C to	+85 °C	T <sub>amb</sub> = -40 °	= -40 °C to +125 °C		
			Min	Typ [1]	Max	Min	Max		
V <sub>IH</sub>	HIGH-level input	V <sub>CC</sub> = 2.3 V to 2.7 V	1.7	-	-	1.7	-	V	
	voltage	V <sub>CC</sub> = 3.0 V to 3.6 V	2.0	-	-	2.0	-	V	
V <sub>IL</sub>	LOW-level input	V <sub>CC</sub> = 2.3 V to 2.7 V	-	-	0.7	-	0.7	V	
voltage		V <sub>CC</sub> = 3.0 V to 3.6 V	-	-	0.9	-	0.9	V	
I <sub>I</sub>	input leakage current	pin $\overline{OE}$ ; V <sub>I</sub> = GND to V <sub>CC</sub> ; V <sub>CC</sub> = 3.6 V	-	-	±1	-	±20	μA	
I <sub>S(OFF)</sub>	OFF-state leakage current	V <sub>CC</sub> = 3.6 V; see <u>Fig. 3</u>	-	-	±1	-	±20	μΑ	
I <sub>S(ON)</sub>	ON-state leakage current	V <sub>CC</sub> = 3.6 V; see <u>Fig. 4</u>	-	-	±1	-	±20	μA	
I <sub>OFF</sub>	power-off leakage current	$V_1 \text{ or } V_0 = 0 \text{ V to } 3.6 \text{ V};$ $V_{CC} = 0 \text{ V}$	-	-	±10	-	±50	μA	
I <sub>CC</sub>	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 <sub>CC</sub>	additional supply current	pin $\overline{\text{OE}}$ ; $V_{\text{I}} = V_{\text{CC}} - 0.6 \text{ V}$ ; $V_{\text{SW}} = \text{GND or } V_{\text{CC}}$ ; $V_{\text{CC}} = 3.6 \text{ V}$ ; One input at 3 V, other inputs at $V_{\text{CC}}$ or GND.	-	-	300	-	2000	μΑ	
C <sub>I</sub>	input capacitance	pin <del>OE</del> ; V <sub>CC</sub> = 3.3 V; V <sub>I</sub> = 0 V to 3.3 V	-	0.9	-	-	-	pF	
C <sub>S(OFF)</sub>	OFF-state capacitance	$V_{CC} = 3.3 \text{ V}; V_I = 0 \text{ V to } 3.3 \text{ V}$	-	5.2	-	-	-	pF	
C <sub>S(ON)</sub>	ON-state capacitance	$V_{CC} = 3.3 \text{ V}; V_I = 0 \text{ V to } 3.3 \text{ V}$	-	14.3	-	-	-	pF	

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

#### 9.1. Test circuits



#### 9.2. ON resistance

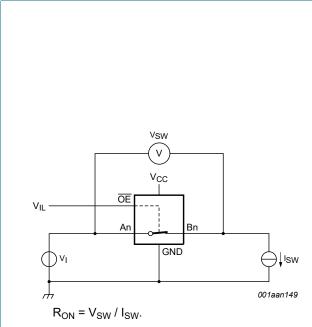
Table 7. Resistance R<sub>ON</sub>

At recommended operating conditions; voltages are referenced to GND (ground = 0 V); for test circuit see Fig. 5.

Symbol	Parameter	Conditions	$T_{amb}$ = -40 °C to +85 °C		T <sub>amb</sub> = -40 °	C to +125 °C	Unit	
			Min	Typ [1]	Max	Min	Max	
R <sub>ON</sub>	ON resistance	V <sub>CC</sub> = 2.3 V to 2.7 V; [2] see <u>Fig. 6</u> to <u>Fig. 8</u>						
		I <sub>SW</sub> = 64 mA; V <sub>I</sub> = 0 V	-	4.2	8.0	-	15.0	Ω
		I <sub>SW</sub> = 24 mA; V <sub>I</sub> = 0 V	-	4.2	8.0	-	15.0	Ω
		I <sub>SW</sub> = 15 mA; V <sub>I</sub> = 1.7 V	-	8.4	40	-	60.0	Ω
		V <sub>CC</sub> = 3.0 V to 3.6 V; see <u>Fig. 9</u> to <u>Fig. 11</u>						
		I <sub>SW</sub> = 64 mA; V <sub>I</sub> = 0 V	-	4.0	7.0	-	11.0	Ω
		I <sub>SW</sub> = 24 mA; V <sub>I</sub> = 0 V	-	4.0	7.0	-	11.0	Ω
		I <sub>SW</sub> = 15 mA; V <sub>I</sub> = 2.4 V	-	6.2	15	-	25.5	Ω

Typical values are measured at T<sub>amb</sub> = 25 °C and nominal V<sub>CC</sub>.
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



Test circuit for measuring ON resistance (one switch)

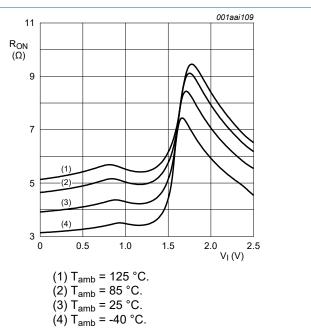
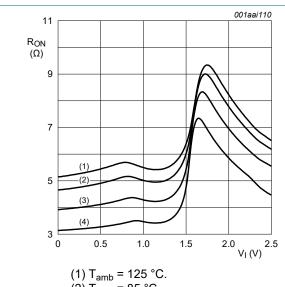
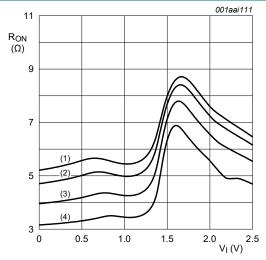


Fig. 6. ON resistance as a function of input voltage;  $V_{CC} = 2.5 \text{ V}; I_{SW} = 15 \text{ mA}$ 



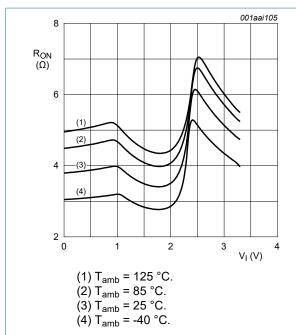
- (2)  $T_{amb} = 85 \,^{\circ}C$ . (3)  $T_{amb} = 25 \,^{\circ}C$ .
- (4)  $T_{amb} = -40 \, ^{\circ}C$ .

Fig. 7. ON resistance as a function of input voltage;  $V_{CC} = 2.5 \text{ V}; I_{SW} = 24 \text{ mA}$ 



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

Fig. 8. ON resistance as a function of input voltage;  $V_{CC} = 2.5 \text{ V}; I_{SW} = 64 \text{ mA}$ 



ON resistance as a function of input voltage; Fig. 9.  $V_{CC}$  = 3.3 V;  $I_{SW}$  = 15 mA

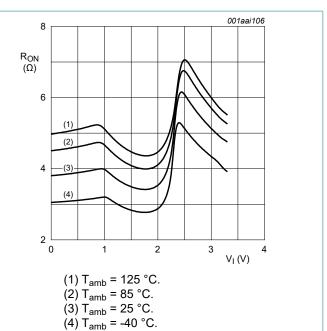
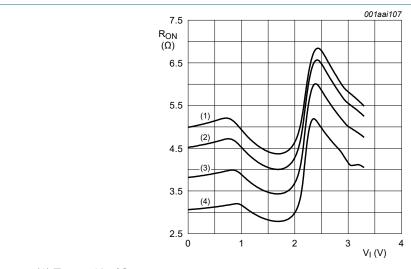


Fig. 10. ON resistance as a function of input voltage;  $V_{CC} = 3.3 \text{ V}; I_{SW} = 24 \text{ mA}$ 



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

Fig. 11. ON resistance as a function of input voltage;  $V_{CC} = 3.3 \text{ V}$ ;  $I_{SW} = 64 \text{ mA}$ 

# 10. Dynamic characteristics

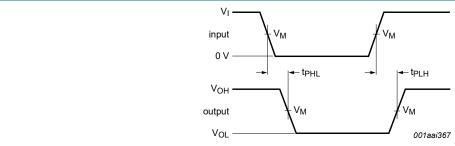
#### **Table 8. Dynamic characteristics**

GND = 0 V; for test circuit see Fig. 14

Symbol	Parameter	Conditions		T <sub>amb</sub> =	-40 °C to	+85 °C	T <sub>amb</sub> = -40 °	C to +125 °C	Unit
				Min	Typ [1]	Max	Min	Max	
t <sub>pd</sub>	propagation delay	An to Bn or Bn to An; see Fig. 12	[2][3]						
		V <sub>CC</sub> = 2.3 V to 2.7 V		-	-	0.13	-	0.20	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V		-	-	0.20	-	0.31	ns
t <sub>en</sub>	enable time	OE to An or Bn; see Fig. 13	[4]						
		V <sub>CC</sub> = 2.3 V to 2.7 V		1.0	2.9	5.5	1.0	8.0	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V		1.0	2.4	4.9	1.0	7.0	ns
t <sub>dis</sub>	disable time	OE to An or Bn; see Fig. 13	[5]						
		V <sub>CC</sub> = 2.3 V to 2.7 V		1.0	2.6	5.5	1.0	8.0	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V		1.0	3.1	5.8	1.0	8.5	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  $t_{PHL}$ .
- t<sub>en</sub> is the same as t<sub>PZH</sub> and t<sub>PZL</sub>.
- $t_{\mbox{\scriptsize dis}}$  is the same as  $t_{\mbox{\scriptsize PHZ}}$  and  $t_{\mbox{\scriptsize PLZ}}.$

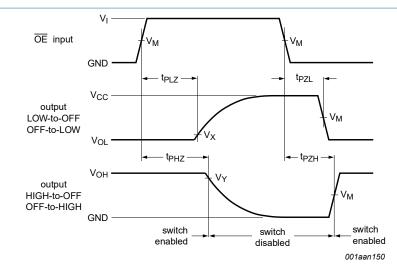
#### 10.1. Waveforms and test circuit



Measurement points are given in Table 9.

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

Fig. 12. The data input (An, Bn) to output (Bn, An) propagation delay times



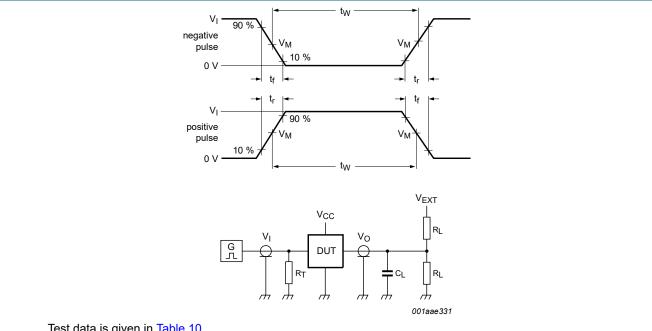
Measurement points are given in Table 9.

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

Fig. 13. Enable and disable times

**Table 9. Measurement points** 

Supply voltage	Input			Output			
V <sub>CC</sub>	V <sub>M</sub>	V <sub>I</sub>	$t_r = t_f$	V <sub>M</sub>	V <sub>X</sub>	V <sub>Y</sub>	
2.3 V to 2.7 V	0.5V <sub>CC</sub>	V <sub>CC</sub>	≤ 2.0 ns	0.5V <sub>CC</sub>	V <sub>OL</sub> + 0.15 V	V <sub>OH</sub> - 0.15 V	
3.0 V to 3.6 V	0.5V <sub>CC</sub>	V <sub>CC</sub>	≤ 2.0 ns	0.5V <sub>CC</sub>	V <sub>OL</sub> + 0.3 V	V <sub>OH</sub> - 0.3 V	



Test data is given in Table 10.

Definitions for test circuit:

R<sub>L</sub> = Load resistance;

C<sub>L</sub> = 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<sub>EXT</sub> = External voltage for measuring switching times.

Fig. 14. Test circuit for measuring switching times

Table 10. Test data

Supply voltage	Load		V <sub>EXT</sub>			
V <sub>CC</sub>	CL	R <sub>L</sub>	t <sub>PLH</sub> , t <sub>PHL</sub>	t <sub>PZH</sub> , t <sub>PHZ</sub>	t <sub>PZL</sub> , t <sub>PLZ</sub>	
2.3 V to 2.7 V	30 pF	500 Ω	open	GND	2V <sub>CC</sub>	
3.0 V to 3.6 V	50 pF	500 Ω	open	GND	2V <sub>CC</sub>	

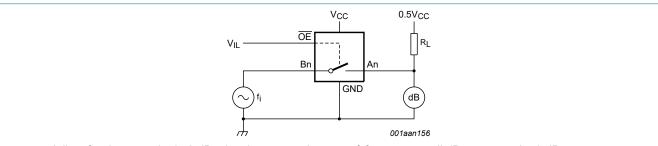
### 10.2. Additional dynamic characteristics

#### **Table 11. Additional dynamic characteristics**

GND = 0 V.

Symbol	Parameter	Conditions	Ta	T <sub>amb</sub> = 25 °C		Unit
			Min	Тур	Max	
f <sub>(-3dB)</sub>	-3 dB frequency response	$V_{CC} = 3.3 \text{ V}; R_L = 50 \Omega; \text{ see } Fig. 15$ [1]	-	406	-	MHz

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



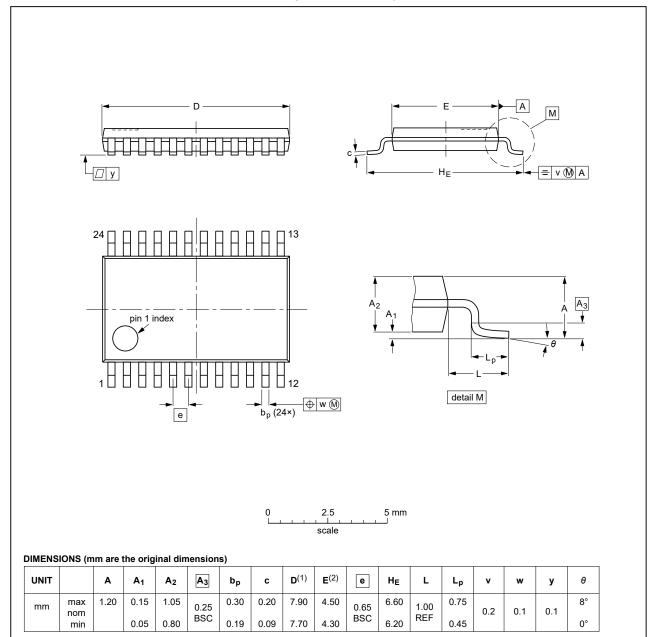
Adjust f<sub>i</sub> voltage to obtain 0 dBm level at output. Increase f<sub>i</sub> frequency until dB meter reads -3 dB.

Fig. 15. Test circuit for measuring the frequency response when channel is in ON-state

# 11. Package outline

#### TSSOP24: plastic thin shrink small outline package; 24 leads; body width 4.4 mm

SOT355-1



#### 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.

sot355-1\_po

		REFERENCES			
IEC	JEDEC	EIAJ		PROJECTION	ISSUE DATE
	MO-153				<del>-03-02-19</del> 24-11-07
	ILO	-			

Fig. 16. Package outline SOT355-1 (TSSOP24)

# 12. Abbreviations

#### **Table 12. Abbreviations**

Acronym	Description			
ANSI	American National Standards Institute			
CDM	Charged Device Model			
CMOS	Complementary Metal-Oxide Semiconductor			
DUT	Device Under Test			
ESD	ElectroStatic Discharge			
ESDA	ElectroStatic Discharge Association			
НВМ	Human Body Model			
JEDEC	Joint Electron Device Engineering Council			

# 13. Revision history

#### Table 13. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes	
74CBTLV3861_Q100 v.1.1	20250828			74CBTLV3861_Q100 v.1	
Modifications	Type number 74CBTLV3861BQ-Q100 (SOT815-1/DHVQFN24) removed.				
74CBTLV3861_Q100 v.1	20250828	Product data sheet	-	-	

### 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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