74CBTLV3384

10-bit bus switch with 5-bit output enables

Rev. 4 — 11 February 2021

Product data sheet

1. General description

The 74CBTLV3384 is a dual 5-pole, single-throw bus switch. The device features two output enable inputs ($\overline{\text{NOE}}$) that each control five switch channels. The switches are disabled when the associated $\overline{\text{NOE}}$ input is HIGH. Schmitt-trigger action at control inputs makes the circuit tolerant of slower input rise and fall times. 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
- · 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
- Specified from -40 °C to +85 °C and -40 °C to +125 °C

3. Ordering information

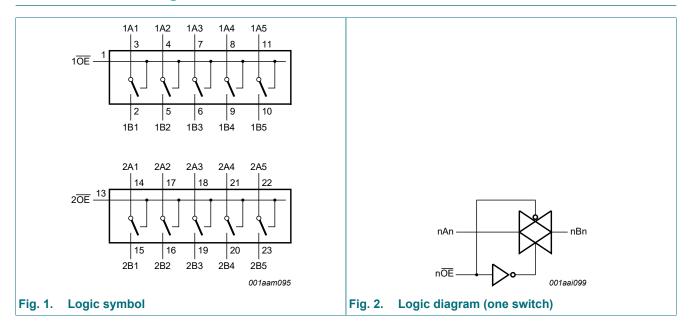
Table 1. Ordering information

Type number	Package	Package										
	Temperature range	Name	Description	Version								
74CBTLV3384PW	-40 °C to +125 °C	TSSOP24	plastic thin shrink small outline package; 24 leads; body width 4.4 mm	SOT355-1								
74CBTLV3384BQ	-40 °C to +125 °C	DHVQFN24	plastic dual in-line compatible thermal enhanced very thin quad flat package; no leads; 24 terminals; body 3.5 × 5.5 × 0.85 mm	SOT815-1								



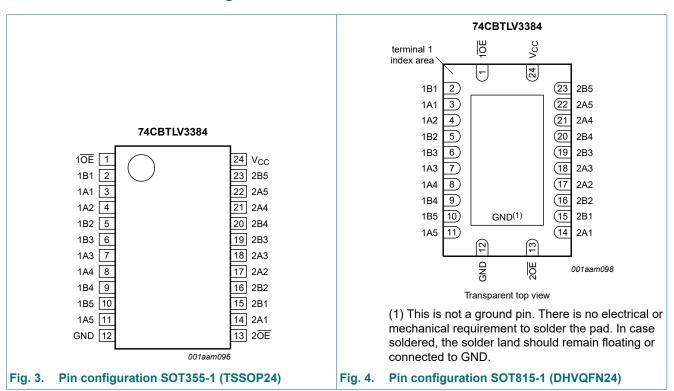
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4. Functional diagram



5. Pinning information

5.1. Pinning



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5.2. Pin description

Table 2. Pin description

Symbol	Pin	Description
1 OE , 2 OE	1, 13	output enable input (active LOW)
1A1, 1A2, 1A3, 1A4, 1A5	3, 4, 7, 8, 11	data input/output (A port)
2A1, 2A2, 2A3, 2A4, 2A5	14, 17, 18, 21, 22	data input/output (A port)
1B1, 1B2, 1B3, 1B4, 1B5	2, 5, 6, 9, 10	data input/output (B port)
2B1, 2B2, 2B3, 2B4, 2B5	15, 16, 19, 20, 23	data input/output (B port)
GND	12	ground (0 V)
V _{CC}	24	positive supply voltage

6. Functional description

Table 3. Function selection

H = HIGH voltage level; L = LOW voltage level; Z = high-impedance OFF-state.

Input		Input/output					
1 OE	2 OE	1An, 1Bn	2An, 2Bn				
L	L	1An = 1Bn	2An = 2Bn				
L	Н	1An = 1Bn	Z				
Н	L	Z	2An = 2Bn				
Н	Н	Z	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).

Parameter	Conditions	Min	Max	Unit
supply voltage		-0.5	+4.6	V
input voltage	[1]	-0.5	+4.6	V
switch voltage	enable and disable mode [1]	-0.5	V _{CC} + 0.5	V
input clamping current	V _I < -0.5 V	-50	-	mA
switch clamping current	V _I < -0.5 V	-50	-	mA
switch current	V _{SW} = 0 V to V _{CC}	-	±128	mA
supply current		-	+100	mA
ground current		-100	-	mA
storage temperature		-65	+150	°C
total power dissipation	$T_{amb} = -40 ^{\circ}\text{C} \text{ to } +125 ^{\circ}\text{C}$ [2]	-	500	mW
	supply voltage input voltage switch voltage input clamping current switch clamping current switch current supply current ground current storage temperature	supply voltage input voltage input voltage enable and disable mode [1] input clamping current $V_1 < -0.5 \text{ V}$ switch clamping current $V_1 < -0.5 \text{ V}$ switch current $V_{SW} = 0 \text{ V to V}_{CC}$ supply current ground current storage temperature	supply voltage-0.5input voltage[1]-0.5switch voltageenable and disable mode[1]-0.5input clamping current $V_1 < -0.5 \text{ V}$ -50switch clamping current $V_1 < -0.5 \text{ V}$ -50switch current $V_{SW} = 0 \text{ V to V}_{CC}$ -supply currentground current-100storage temperature-65	supply voltage-0.5 $+4.6$ input voltage[1] -0.5 $+4.6$ switch voltageenable and disable mode[1] -0.5 $V_{CC} + 0.5$ input clamping current $V_1 < -0.5 \ V$ -50 $-$ switch clamping current $V_1 < -0.5 \ V$ -50 $-$ switch current $V_{SW} = 0 \ V$ to V_{CC} $ \pm 128$ supply current $ +100$ $-$ ground current -100 $-$ storage temperature -65 $+150$

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

^[2] For SOT355-1 (TSSOP24) package: P_{tot} derates linearly with 12.4 mW/K above 110 °C. For SOT815-1 (DHVQFN24) package: P_{tot} derates linearly with 15.0 mW/K above 117 °C.

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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		0	3.6	V
V_{SW}	switch voltage	enable and disable mode	0	V _{CC}	V
T _{amb}	ambient temperature		-40	+125	°C
Δt/ΔV	input transition rise and fall rate	$V_{CC} = 2.3 \text{ V to } 3.6 \text{ V}$ [1]	-	200	ns/V

^[1] Applies to control signal levels.

9. Static characteristics

Table 6. Static characteristics

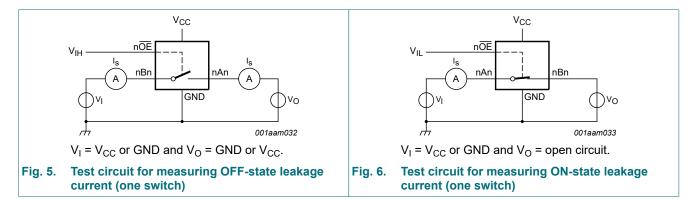
At recommended operating conditions voltages are referenced to GND (ground = 0 V).

Symbol	Parameter	Conditions	T _{amb} =	-40 °C to -	+85 °C	T _{amb} = -40 °	C to +125 °C	Unit
			Min	Typ [1]	Max	Min	Max	
V _{IH}	HIGH-level	V _{CC} = 2.3 V to 2.7 V	1.7	-	-	1.7	-	V
	input voltage	V _{CC} = 3.0 V to 3.6 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
I _I	input leakage current	pin \overline{OE} ; $V_I = GND$ to V_{CC} ; $V_{CC} = 3.6 \text{ V}$	-	-	±1	-	±20	μA
I _{S(OFF)}	OFF-state leakage current	V _{CC} = 3.6 V; see <u>Fig. 5</u>	-	-	±1	-	±20	μA
I _{S(ON)}	ON-state leakage current	ON-state $V_{CC} = 3.6 \text{ V}$; see Fig. 6		-	±1	-	±20	μA
I _{OFF}	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 _{CC}	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 _{CC}	additional supply current	pin n \overline{OE} ; V _I = V _{CC} - 0.6 V; V _{SW} = GND or V _{CC} ; V _{CC} = 3.6 V; one input at 3 V, other inputs at V _{CC} or GND.	-	-	300	-	2000	μА
C _I	input capacitance	pin n OE ; V _{CC} = 3.3 V; V _I = 0 V to 3.3 V	-	0.9	-	-	-	pF
C _{S(OFF)}	OFF-state capacitance	$V_{CC} = 3.3 \text{ V}; V_{I} = 0 \text{ V to } 3.3 \text{ V}$	-	5.2	-	-	-	pF
C _{S(ON)}	ON-state capacitance	$V_{CC} = 3.3 \text{ V}; V_{I} = 0 \text{ V to } 3.3 \text{ V}$	-	14.3	-	-	-	pF

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

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9.1. Test circuits



10. ON resistance

Table 7. Resistance RoN

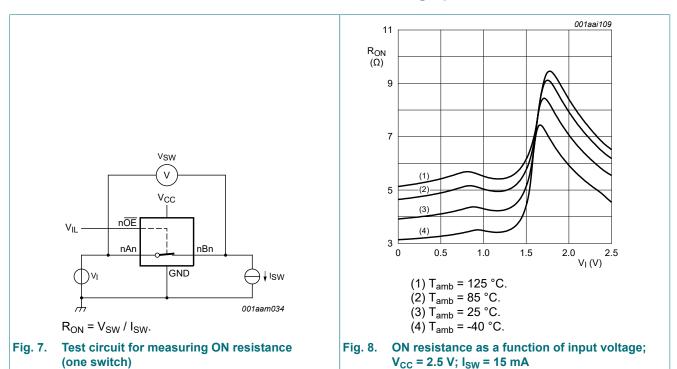
At recommended operating conditions; voltages are referenced to GND (ground = 0 V); for test circuit see Fig. 7.

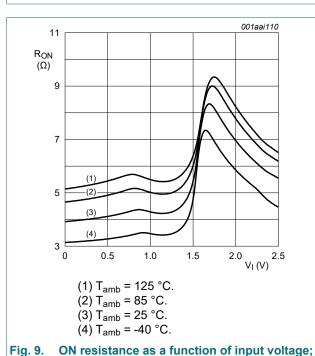
Symbol	Parameter	Conditions	T _{amb} =	-40 °C to	+85 °C	T _{amb} = -40 °(C to +125 °C	Unit
			Min	Typ [1]	Max	Min	Max	
R _{ON}	ON resistance	V _{CC} = 2.3 V to 2.7 V; [2] see <u>Fig. 8</u> to <u>Fig. 10</u>						
		I _{SW} = 64 mA; V _I = 0 V	-	4.2	8.0	-	15.0	Ω
		I _{SW} = 24 mA; V _I = 0 V	-	4.2	8.0	-	15.0	Ω
		I _{SW} = 15 mA; V _I = 1.7 V	-	8.4	40	-	60.0	Ω
		V _{CC} = 3.0 V to 3.6 V; see <u>Fig. 11</u> to <u>Fig. 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	-	25.5	Ω

Typical values are measured at T_{amb} = 25 °C and nominal V_{CC} . 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.

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10.1. ON resistance test circuit and graphs





 $V_{CC} = 2.5 \text{ V}; I_{SW} = 24 \text{ mA}$

001aai111 11 Ron (Ω) 9 7 (1) (2) 0.5 1.0 (1) T_{amb} = 125 °C. (2) $T_{amb} = 85 \,^{\circ}C$. (3) $T_{amb} = 25 \,^{\circ}C$. (4) $T_{amb} = -40 \, ^{\circ}C$.

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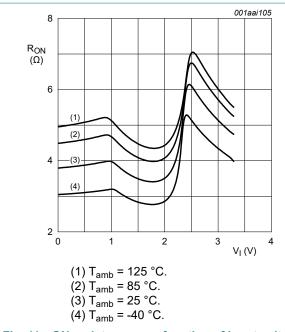
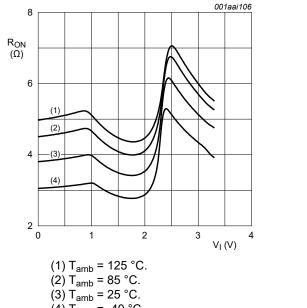
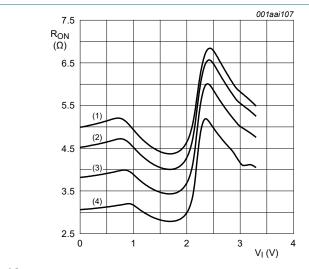


Fig. 11. ON resistance as a function of input voltage; $V_{CC} = 3.3 \text{ V}; I_{SW} = 15 \text{ mA}$



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

Fig. 12. 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. 13. ON resistance as a function of input voltage; $V_{CC} = 3.3 \text{ V}$; $I_{SW} = 64 \text{ mA}$

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11. Dynamic characteristics

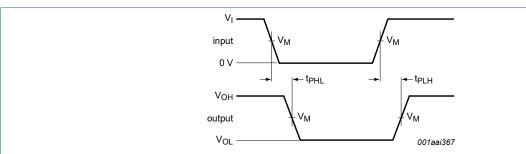
Table 8. Dynamic characteristics

GND = 0 V; for test circuit see Fig. 16

Symbol	Parameter	Conditions	T _{amb} :	= -40 °C to	+85 °C	T _{amb} = -40 °	C to +125 °C	Unit
			Min	Typ [1]	Max	Min	Max	
t _{pd}	propagation delay	nAn to nBn or nBn to nAn; [2] [see Fig. 14	3]					
		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	able time nOE to nAn or nBn; see Fig. 15						
		V _{CC} = 2.3 V to 2.7 V	1.0	3.0	5.0	1.0	7.0	ns
		V _{CC} = 3.0 V to 3.6 V	1.0	2.6	4.3	1.0	6.0	ns
t _{dis}	disable time	disable time nOE to nAn or nBn; see Fig. 15						
		V _{CC} = 2.3 V to 2.7 V	1.0	2.6	5.5	1.0	7.5	ns
		V _{CC} = 3.0 V to 3.6 V	1.0	3.2	5.5	1.0	7.5	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_{en} is the same as t_{PZH} and t_{PZL} .
- t_{dis} is the same as t_{PHZ} and t_{PLZ}.

11.1. Waveforms and test circuit



Measurement points are given in <u>Table 9</u>.

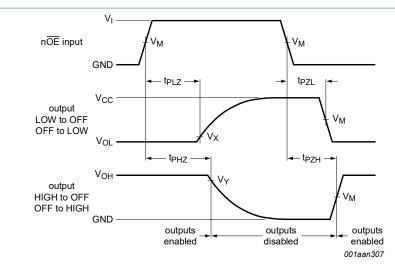
Logic levels: V_{OL} and V_{OH} are typical output voltage levels that occur with the output load.

Fig. 14. The data input (nAn, nBn) to output (nBn, nAn) propagation delay times

Table 9. Measurement points

Supply voltage	Input			Output					
V _{CC}	V _M V _I		$t_r = t_f$	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			

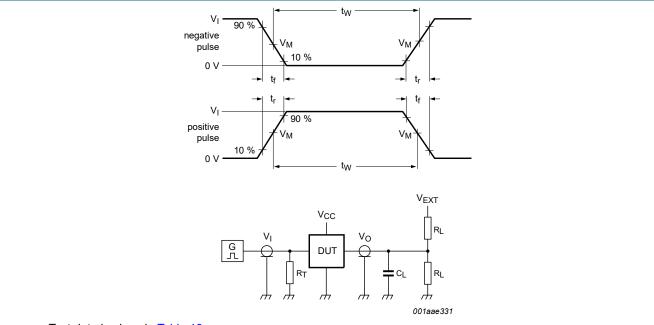
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Measurement points are given in Table 9.

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

Fig. 15. Enable and disable times



Test data is given in Table 10.

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_{EXT} = External voltage for measuring switching times.

Fig. 16. Test circuit for measuring switching times

Table 10. Test data

Supply voltage	Load		V _{EXT}						
V _{CC}	CL	R_L	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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11.2. Additional dynamic characteristics

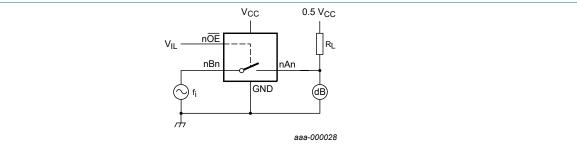
Table 11. Additional dynamic characteristics

 $\textit{At recommended operating conditions; Voltages are referenced to GND (ground = 0 \ V); } \\$

 V_I = GND or V_{CC} (unless otherwise specified); t_r = $t_f \le 2.5$ ns.

Symbol	Parameter	Conditions		7	r _{amb} = 25 °C	;	Unit
			M	1in	Тур	Max	
f _(-3dB)	-3 dB frequency response	$V_{CC} = 3.3 \text{ V; } R_L = 50 \Omega; \text{ see } Fig. 17$ [1]	-	406	-	MHz

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



 $n\overline{OE}$ connected to GND; Adjust f_i voltage to obtain 0 dBm level at output. Increase f_i frequency until dB meter reads -3 dB.

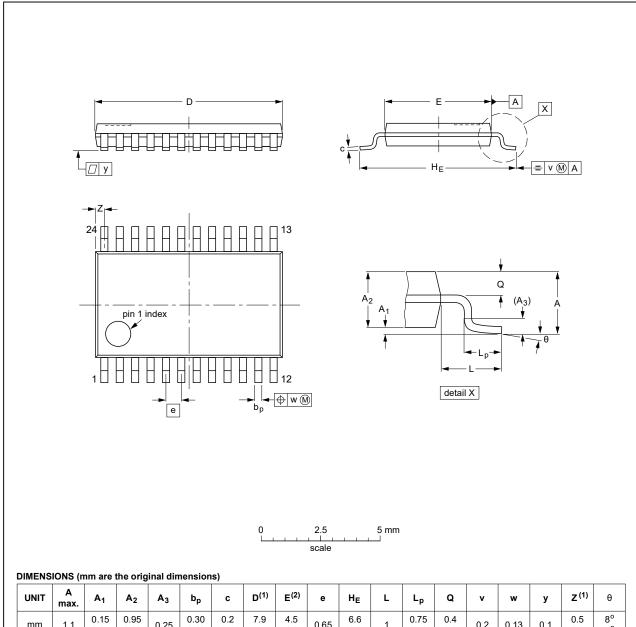
Fig. 17. Test circuit for measuring the frequency response when channel is in ON-state

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12. Package outline

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

SOT355-1



UNIT	A max.	A ₁	A ₂	A ₃	bp	С	D ⁽¹⁾	E ⁽²⁾	е	HE	L	Lp	Q	v	w	у	Z ⁽¹⁾	θ
mm	1.1	0.15 0.05	0.95 0.80	0.25	0.30 0.19	0.2 0.1	7.9 7.7	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	0.5 0.2	8° 0°

- 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				ISSUE DATE	
	IEC	JEDEC	JEITA		PROJECTION	ISSUE DATE	
SOT355-1		MO-153				99-12-27 03-02-19	

Fig. 18. Package outline SOT355-1 (TSSOP24)

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DHVQFN24: plastic dual in-line compatible thermal enhanced very thin quad flat package; no leads; 24 terminals; body $3.5 \times 5.5 \times 0.85$ mm

SOT815-1

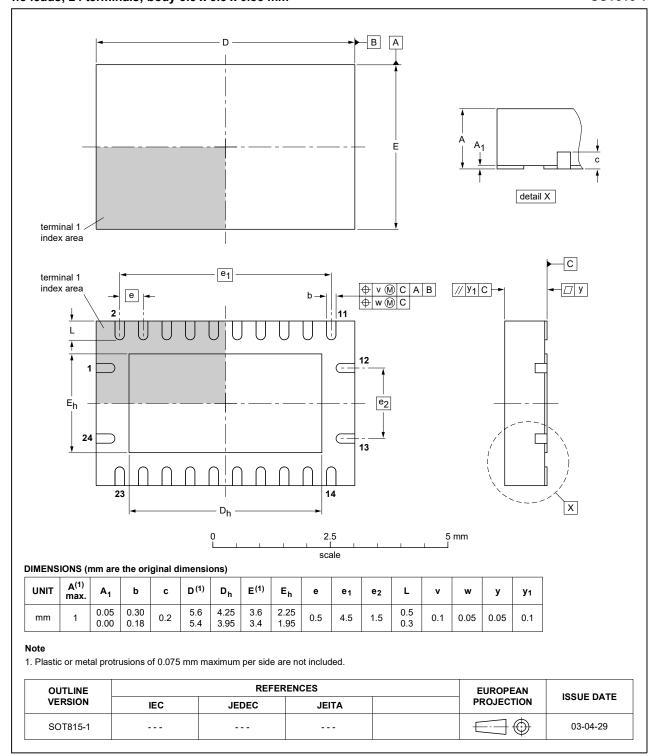


Fig. 19. Package outline SOT815-1 (DHVQFN24)

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13. Abbreviations

Table 12. Abbreviations

Table 1217 tool of tation o				
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			
TTL	Transistor-Transistor Logic			

14. Revision history

Table 13. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes	
74CBTLV3384 v.4	20210211	Product data sheet	-	74CBTLV3384 v.3	
Modifications:	guidelines Legal texts Type numb	 The format of this data sheet has been redesigned to comply with the identity guidelines of Nexperia. Legal texts have been adapted to the new company name where appropriate. Type number 74CBTLV3384DK (SOT556-1 / SSOP24) removed. Section 7: Derating values for Ptot total power dissipation updated. 			
74CBTLV3384 v.3	20161111	Product data sheet	-	74CBTLV3384 v.2	
Modifications:	Section 11.	<u>2</u> added.			
74CBTLV3384 v.2	20111216	Product data sheet	-	74CBTLV3384 v.1	
Modifications:	Legal page	Legal pages updated.			
74CBTLV3384 v.1	20101230	Product data sheet	-	-	
				1	

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15. 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 [1] completing a design.
- The term 'short data sheet' is explained in section "Definitions".
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10-bit bus switch with 5-bit output enables

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