74LVC4245A

Octal dual supply translating transceiver; 3-state

Rev. 15 — 29 November 2024

Product data sheet

1. General description

The 74LVC4245A is an octal dual supply translating transceiver featuring 3-state bus compatible outputs in both send and receive directions. It is designed to interface between a 3 V and 5 V bus in a mixed 3 V and 5 V supply environment. The device features an output enable input (\overline{OE}) and a send/receive input (DIR) for direction control. A HIGH on \overline{OE} causes the outputs to assume a high-impedance OFF-state, effectively isolating the buses. In suspend mode, when either supply is zero, there is no current path between supplies. $V_{CCA} \ge V_{CCB}$, except in suspend mode. Schmitt-trigger action at all inputs makes the circuit tolerant of slower input rise and fall times.

2. Features and benefits

- 5 V tolerant inputs/outputs, for interfacing with 5 V logic
- Wide supply voltage range:
 - 3 V bus (V_{CC(B)}): 1.5 V to 3.6 V
 - 5 V bus (V_{CC(A)}): 1.5 V to 5.5 V
- CMOS low-power consumption
- · TTL interface capability at 3.3 V
- Overvoltage tolerant control inputs to 5.5 V
- High-impedance when V_{CC(A)} = 0 V
- Complies with JEDEC standard no. JESD8B/JESD36
- Latch-up performance meets requirements of JESD78 Class 1
- ESD protection:
 - HBM: ANSI/ESDA/JEDEC JS-001 class 2 exceeds 2000 V
 - CDM: ANSI/ESDA/JEDEC JS-002 class C3 exceeds 1000 V
- · Multiple package options
- Specified from -40 °C to +85 °C and -40 °C to +125 °C

3. Ordering information

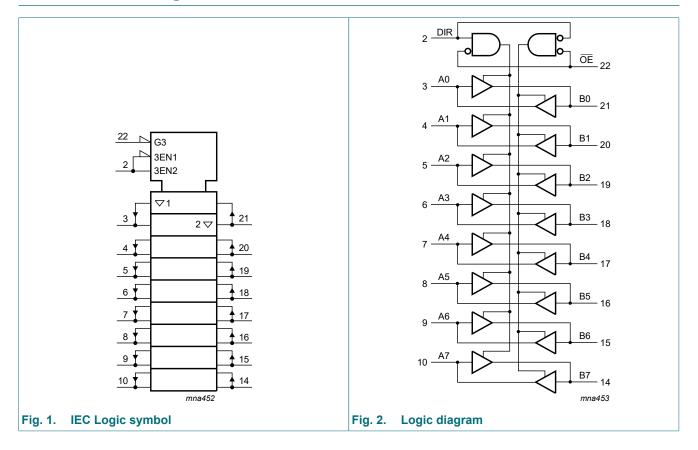
Table 1. Ordering information

Type number	Package									
	Temperature range	Name	Description	Version						
74LVC4245AD	-40 °C to +125 °C	SO24	plastic small outline package; 24 leads; body width 7.5 mm	SOT137-1						
74LVC4245APW	-40 °C to +125 °C	TSSOP24	plastic thin shrink small outline package; 24 leads; body width 4.4 mm	SOT355-1						
74LVC4245ABQ	-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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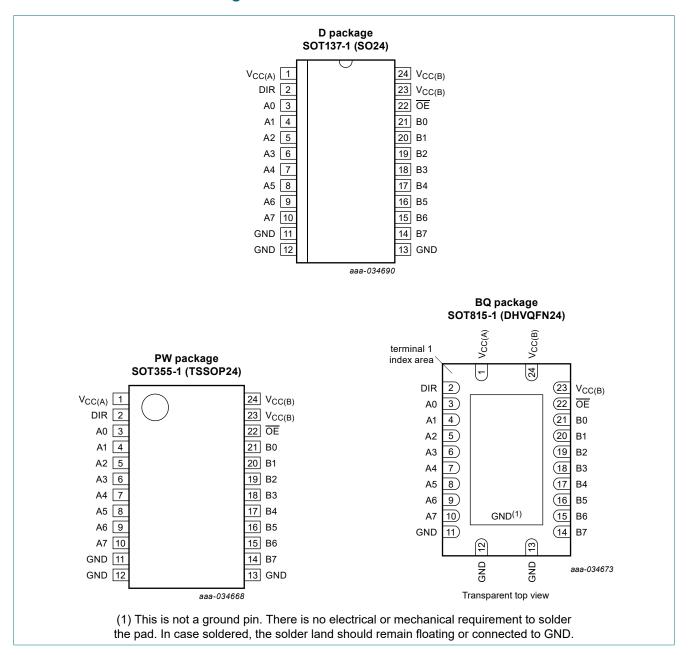
4. Functional diagram



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5. Pinning information

5.1. Pinning



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5.2. Pin description

Table 2. Pin description

Symbol	Pin	Description
V _{CC(A)}	1	supply voltage (5 V bus)
$V_{CC(B)}$	23, 24	supply voltage (3 V bus)
GND	11, 12, 13	ground (0 V)
DIR	2	direction control
A0, A1, A2, A3, A4, A5, A6, A7	3, 4, 5, 6, 7, 8, 9, 10	data input or output
B0, B1, B2, B3, B4, B5, B6, B7	21, 20, 19, 18, 17, 16, 15, 14	data input or output
ŌĒ	22	output enable input (active LOW)

6. Functional description

Table 3. Functional table

 $H = HIGH \ voltage \ level; \ L = LOW \ voltage \ level; \ X = don't \ care; \ Z = high-impedance \ OFF-state.$

Input		Input/output				
OE	DIR	An	Bn			
L	L	A = B	input			
L	Н	input	B = A			
Н	X	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).

Symbol	Parameter	Conditions		Min	Max	Unit
V _{CC(A)}	supply voltage A			-0.5	+6.5	V
V _{CC(B)}	supply voltage B			-0.5	+4.6	V
I _{IK}	input clamping current	V _I < 0 V		-50	-	mΑ
VI	input voltage		[1]	-0.5	+6.5	V
I _{OK}	output clamping current	$V_O > V_{CCO}$ or $V_O < 0$ V	[2]	-	±50	mΑ
Vo	output voltage	output HIGH or LOW state	[1]	-0.5	V _{CC} + 0.5	V
		output 3-state	[1]	-0.5	+6.5	V
I _O	output current	$V_O = 0 V \text{ to } V_{CCO}$	[2]	-	±50	mΑ
I _{CC}	supply current			-	100	mΑ
I _{GND}	ground current			-100	-	mΑ
T _{stg}	storage temperature			-65	+150	°C
P _{tot}	total power dissipation	T _{amb} = -40 °C to +125 °C	[3]	-	500	mW

- [1] The input and output voltage ratings may be exceeded if the input and output current ratings are observed.
- [2] V_{CCO} is the supply voltage associated with the output.
- [3] For SOT137-1 (SO24) package: P_{tot} derates linearly with 16.2 mW/K above 119 °C. 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.

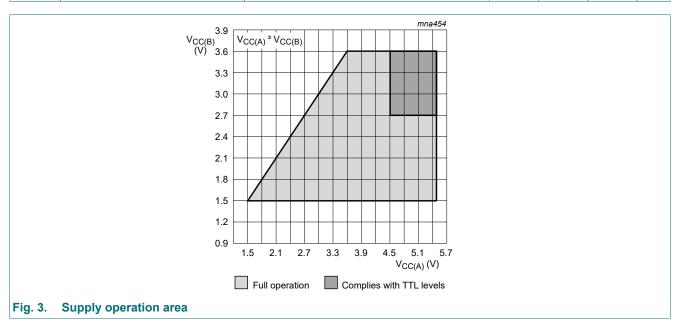
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8. Recommended operating conditions

Table 5. Recommended operating conditions

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
V _{CC(A)}	supply voltage A	$V_{CC(A)} \ge V_{CC(B)}$; see <u>Fig. 3</u> for maximum speed performance	1.5	-	5.5	V
V _{CC(B)}	supply voltage B	V _{CC(A)} ≥ V _{CC(B)} ; see <u>Fig. 3</u> for low-voltage applications	1.5	-	3.6	V
VI	input voltage	for control inputs	0	-	5.5	V
Vo	output voltage	output HIGH or LOW state	0	-	V _{CC}	V
		output 3-state	0	-	5.5	V
T _{amb}	ambient temperature		-40	-	+125	°C
Δt/ΔV	input transition rise and fall rate	V _{CC(B)} = 2.7 V to 3.0 V	-	-	20	ns/V
		V _{CC(B)} = 3.0 V to 3.6 V	-	-	10	ns/V
		V _{CC(A)} = 3.0 V to 4.5 V	-	-	20	ns/V
		V _{CC(A)} = 4.5 V to 5.5 V	-	-	10	ns/V



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9. Static characteristics

Table 6. Static characteristics

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

Symbol	Parameter	Conditions	Min	Typ [1]	Max	Unit
T _{amb} = -	40 °C to +85 °C					
V _{IH}	HIGH-level input	V _{CC(B)} = 2.7 V to 3.6 V	2.0	-	-	V
	voltage	V _{CC(A)} = 4.5 V to 5.5 V	2.0	-	-	V
V _{IL}	LOW-level input	V _{CC(B)} = 2.7 V to 3.6 V	-	-	8.0	V
	voltage	V _{CC(A)} = 4.5 V to 5.5 V	-	-	0.8	V
V _{OH}	HIGH-level output	$V_I = V_{IH}$ or V_{IL}				
	voltage	V _{CC(B)} = 2.7 V to 3.6 V; I _O = -100 μA	V _{CC(B)} - 0.2	V _{CC(B)}	-	V
		$V_{CC(B)} = 2.7 \text{ V; I}_{O} = -12 \text{ mA}$	V _{CC(B)} - 0.5	-	-	V
		V _{CC(B)} = 3.0 V; I _O = -24 mA	V _{CC(B)} - 0.8	-	-	V
		V _{CC(A)} = 4.5 V to 5.5 V; I _O = -100 μA	V _{CC(A)} - 0.2	V _{CC(A)}	-	V
		V _{CC(A)} = 4.5 V; I _O = -12 mA	V _{CC(A)} - 0.5	-	-	V
		V _{CC(A)} = 4.5 V; I _O = -24 mA	V _{CC(A)} - 0.8	-	-	V
V _{OL}	LOW-level output	$V_I = V_{IH}$ or V_{IL}				
	voltage	$V_{CC(B)}$ = 2.7 V to 3.6 V; I_{O} = 100 μ A	-	-	0.20	V
		V _{CC(B)} = 2.7 V; I _O = 12 mA	-	-	0.40	V
		$V_{CC(B)} = 3.0 \text{ V; I}_{O} = 24 \text{ mA}$	-	-	0.55	V
		$V_{CC(A)} = 4.5 \text{ V to } 5.5 \text{ V; I}_{O} = 100 \mu\text{A}$	-	-	0.20	V
		V _{CC(A)} = 4.5 V; I _O = 12 mA	-	-	0.40	V
		V _{CC(A)} = 4.5 V; I _O = 24 mA	-	-	0.55	V
l _l	input leakage current	V _I = 5.5 V or GND	-	±0.1	±5	μA
l _{oz}	OFF-state output	$V_I = V_{IH} \text{ or } V_{IL}$ [2]				
	current	$V_{CC(B)} = 3.6 \text{ V}; V_O = V_{CC(B)} \text{ or GND}$	-	±0.1	±5	μA
		$V_{CC(A)} = 5.5 \text{ V}; V_O = V_{CC(A)} \text{ or GND}$	-	±0.1	±5	μΑ
Icc	supply current	I _O = 0 A				
		$V_{CC(B)} = 3.6 \text{ V};$ other inputs at $V_{CC(B)}$ or GND	-	0.1	10	μA
		$V_{CC(A)} = 5.5 \text{ V};$ other inputs at $V_{CC(A)}$ or GND	-	0.1	10	μA
ΔI _{CC}	additional supply	per pin; I _O = 0 A				
	current	$V_{CC(B)}$ = 2.7 V to 3.6 V; V_I = $V_{CC(B)}$ - 0.6 V; other inputs at $V_{CC(B)}$ or GND	-	5	500	μA
		$V_{CC(A)}$ = 4.5 V to 5.5 V; V_I = $V_{CC(A)}$ - 0.6 V; other inputs at $V_{CC(A)}$ or GND	-	5	500	μA
C _I	input capacitance		-	4.0	-	pF
C _{I/O}	input/output capacitance	An and Bn	-	5.0	-	pF

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Symbol	Parameter	Conditions	Min	Typ [1]	Max	Unit
T _{amb} = -4	40 °C to +125 °C					
V _{IH}	HIGH-level input	V _{CC(B)} = 2.7 V to 3.6 V	2.0	-	-	V
	voltage	V _{CC(A)} = 4.5 V to 5.5 V	2.0	-	-	V
V _{IL}	LOW-level input	V _{CC(B)} = 2.7 V to 3.6 V	-	-	0.8	V
	voltage	V _{CC(A)} = 4.5 V to 5.5 V	-	-	0.8	V
V _{OH}	HIGH-level output	$V_I = V_{IH}$ or V_{IL}				
	voltage	$V_{CC(B)} = 2.7 \text{ V to } 3.6 \text{ V; I}_{O} = -100 \mu\text{A}$	V _{CC(B)} - 0.3	-	-	V
		V _{CC(B)} = 2.7 V; I _O = -12 mA	V _{CC(B)} - 0.65	-	-	V
		V _{CC(B)} = 3.0 V; I _O = -24 mA	V _{CC(B)} - 1.0	-	-	V
		$V_{\rm CC(A)}$ = 4.5 V to 5.5 V; $I_{\rm O}$ = -100 μA	V _{CC(A)} - 0.3	-	-	V
		V _{CC(A)} = 4.5 V; I _O = -12 mA	V _{CC(A)} - 0.65	-	-	V
		V _{CC(A)} = 4.5 V; I _O = -24 mA	V _{CC(A)} - 1.0	-	-	V
V _{OL}	LOW-level output	$V_I = V_{IH}$ or V_{IL}				
	voltage	V _{CC(B)} = 2.7 V to 3.6 V; I _O = 100 μA	-	-	0.30	V
		V _{CC(B)} = 2.7 V; I _O = 12 mA	-	-	0.60	V
		V _{CC(B)} = 3.0 V; I _O = 24 mA	-	-	0.80	V
		$V_{CC(A)} = 4.5 \text{ V to } 5.5 \text{ V; } I_O = 100 \mu\text{A}$	-	-	0.30	V
		V _{CC(A)} = 4.5 V; I _O = 12 mA	-	-	0.60	V
		V _{CC(A)} = 4.5 V; I _O = 24 mA	-	-	0.80	V
l _l	input leakage current	V _I = 5.5 V or GND	-	-	±20	μΑ
l _{oz}	OFF-state output	$V_I = V_{IH} \text{ or } V_{IL}$ [2]				
	current	$V_{CC(B)} = 3.6 \text{ V}; V_O = V_{CC(B)} \text{ or GND}$	-	-	±20	μA
		$V_{CC(A)} = 5.5 \text{ V}; V_O = V_{CC(A)} \text{ or GND}$	-	-	±20	μA
Icc	supply current	I _O = 0 A				
		V _{CC(B)} = 3.6 V; other inputs at V _{CC(B)} or GND	-	-	40	μΑ
		V _{CC(A)} = 5.5 V; other inputs at V _{CC(A)} or GND	-	-	40	μA
ΔI _{CC}	additional supply	per pin; I _O = 0 A				
	current	$V_{\rm CC(B)}$ = 2.7 V to 3.6 V; $V_{\rm I}$ = $V_{\rm CC(B)}$ - 0.6 V; other inputs at $V_{\rm CC(B)}$ or GND	-	-	5000	μA
		$V_{\rm CC(A)}$ = 4.5 V to 5.5 V; $V_{\rm I}$ = $V_{\rm CC(A)}$ - 0.6 V; other inputs at $V_{\rm CC(A)}$ or GND	-	-	5000	μA

All typical values are measured at $V_{CC(A)}$ = 5.0 V, $V_{CC(B)}$ = 3.3 V and T_{amb} = 25 °C. For transceivers, the parameter I_{OZ} includes the input leakage current.

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10. Dynamic characteristics

Table 7. Dynamic characteristics

Voltages are referenced to GND (ground = 0 V). $V_{CC(A)} = 4.5 \text{ V}$ to 5.5 V; $t_r = t_f \le 2.5 \text{ ns}$. For test circuit see Fig. 6.

Symbol	Parameter	Conditions	V _{CC(B)}	-40	°C to +85	5°C	-40 °C to	+125 °C	Unit
				Min	Typ [1]	Max	Min	Max	
t _{PHL}	HIGH to LOW	An to Bn; see Fig. 4	2.7 V	1.0	3.6	6.3	1.0	8.0	ns
	propagation delay		3.0 V to 3.6 V	1.0	3.3	6.3	1.0	8.0	ns
		Bn to An; see Fig. 4	2.7 V	1.0	3.4	6.1	1.0	8.0	ns
			3.0 V to 3.6 V	1.0	3.4	6.1	1.0	8.0	ns
t _{PLH}	LOW to HIGH	An to Bn; see Fig. 4	2.7 V	1.0	3.3	6.7	1.0	8.5	ns
	propagation delay		3.0 V to 3.6 V	1.0	2.8	6.5	1.0	8.5	ns
		Bn to An; see Fig. 4	2.7 V	1.0	3.0	5.0	1.0	6.5	ns
			3.0 V to 3.6 V	1.0	3.0	5.0	1.0	6.5	ns
t _{PZL}	OFF-state to	OE to An; see Fig. 5	2.7 V	1.0	4.5	9.0	1.0	11.5	ns
	LOW propagation delay		3.0 V to 3.6 V	1.0	4.5	9.0	1.0	11.5	ns
	delay	OE to Bn; see Fig. 5	2.7 V	1.0	4.4	8.7	1.0	11.0	ns
			3.0 V to 3.6 V	1.0	3.8	8.1	1.0	10.5	ns
t _{PZH}	OFF-state to	OE to An; see Fig. 5	2.7 V	1.0	4.5	8.1	1.0	10.5	ns
	HIGH propagation delay		3.0 V to 3.6 V	1.0	4.5	8.1	1.0	10.5	ns
		OE to Bn; see Fig. 5	2.7 V	1.0	4.3	8.7	1.0	11.0	ns
			3.0 V to 3.6 V	1.0	3.2	8.1	1.0	10.5	ns
t _{PLZ}	LOW to	OE to An; see Fig. 5	2.7 V	1.0	2.9	7.0	1.0	9.0	ns
	OFF-state propagation delay		3.0 V to 3.6 V	1.0	2.9	7.0	1.0	9.0	ns
	propagation delay	OE to Bn; see Fig. 5	2.7 V	1.0	3.9	7.7	1.0	10.0	ns
			3.0 V to 3.6 V	1.0	3.5	7.7	1.0	10.0	ns
t _{PHZ}	HIGH to	OE to An; see Fig. 5	2.7 V	1.0	2.8	5.8	1.0	7.5	ns
	OFF-state propagation delay		3.0 V to 3.6 V	1.0	2.8	5.8	1.0	7.5	ns
	propagation dolay	OE to Bn; see Fig. 5	2.7 V	1.0	3.3	7.8	1.0	10.0	ns
			3.0 V to 3.6 V	1.0	2.9	7.8	1.0	10.0	ns
t _{sk(o)}	output skew time		[2]	-	-	1.0	-	1.5	ns
C _{PD}	power dissipation capacitance	5 V bus: Bn to An; $V_I = GND$ to $V_{CC(A)}$; $V_{CC(A)} = 5.0 \text{ V}$	[3]						
		outputs enabled	-	-	17	-	-	-	pF
		outputs disabled	-	-	5	-	-	-	pF
		3 V bus: An to Bn; $V_I = \text{GND to V}_{CC(B)};$ $V_{CC(B)} = 3.3 \text{ V}$	[3]						
		outputs enabled	-	-	17	-	-	-	pF
		outputs disabled	-	-	5	-	-	-	pF

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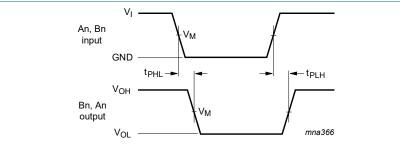
Typical values are measured at T_{amb} = 25 °C, $V_{CC(A)}$ = 5.0 V, and $V_{CC(B)}$ = 2.7 V and 3.3 V respectively. Skew between any two outputs of the same package switching in the same direction. This parameter is guaranteed by design. C_{PD} is used to determine the dynamic power dissipation (P_D in μ W). P_D = $C_{PD} \times V_{CC}^2 \times f_i \times N + \Sigma (C_L \times V_{CC}^2 \times f_o)$ where: f_i = input frequency in MHz; f_o = output frequency in MHz;

 C_L = output load capacitance in pF; V_{CC} = supply voltage in Volts;

N = number of inputs switching; $\Sigma(C_L \times V_{CC})^2 \times f_0$ = sum of the outputs

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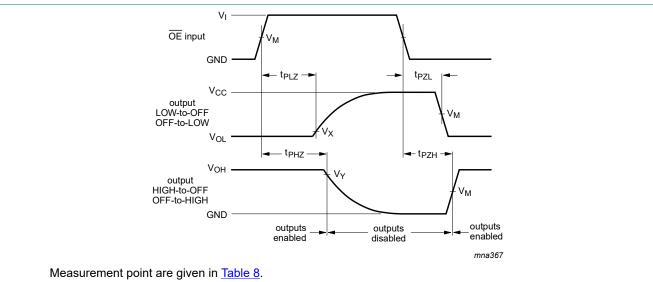
10.1. Waveforms and test circuit



Measurement point are given in Table 8.

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

Fig. 4. Input (An, Bn) to output (Bn, An) propagation delays



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

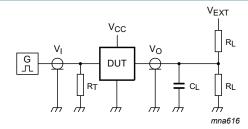
Fig. 5. 3-state enable and disable times

Table 8. Measurement points

Supply voltage		Input		Output			
V _{CC(A)}	V _{CC(B)}	V _M [1]	V _I [1]	V _M [2]	V _X	V _Y	
≤ 2.7 V	≤ 2.7 V	0.5 V _{CCI}	V _{CCI}	0.5 V _{CCO}	-	-	
-	2.7 V to 3.6 V	1.5 V	2.7 V	1.5 V	-	-	
≥ 4.5 V	-	0.5 V _{CCI}	3.0 V	0.5 V _{CCO}	-	-	
-	≥ 2.7 V	-	V _{CCI}	-	V _{OL} + 0.3 V	V _{OH} - 0.3 V	

- [1] V_{CCI} is the supply voltage associated with the data input port.
- [2] V_{CCO} is the supply voltage associated with the data output port.

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Test data is given in <u>Table 9</u>. Definitions for test circuit:

R_L = Load resistance.

 $\ensuremath{\text{C}_{\text{L}}}$ = Load capacitance including jig and probe capacitance.

 R_{T} = Termination resistance should be equal to output impedance Z_{o} of the pulse generator.

Fig. 6. Test circuit for measuring switching times

Table 9. Test data

Supply voltage		Input	Load		V _{EXT}			
V _{CC(A)}	V _{CC(B)}	V _I [1]	CL	R _L	t _{PLH} , t _{PHL}	t _{PZH} , t _{PHZ}	t _{PZL} , t _{PLZ} [2]	
< 2.7 V	< 2.7 V	V _{CCI}	50 pF	500 Ω	open	GND	2 × V _{CCO}	
-	2.7 V to 3.6 V	2.7 V	50 pF	500 Ω	open	GND	2 × V _{CCO}	
4.5 V to 5.5 V	-	3.0 V	50 pF	500 Ω	open	GND	2 × V _{CCO}	

^[1] V_{CCI} is the supply voltage associated with the data input port.

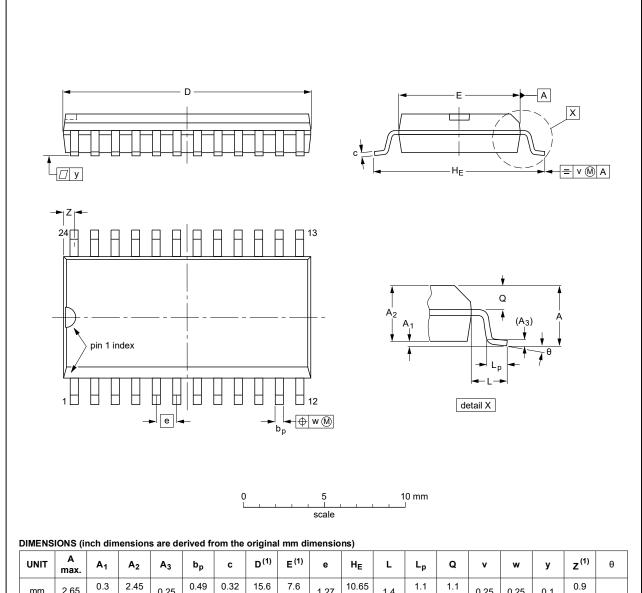
^[2] V_{CCO} is the supply voltage associated with the output port.

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11. Package outline

SO24: plastic small outline package; 24 leads; body width 7.5 mm

SOT137-1



UNIT	A max.	A ₁	A ₂	A ₃	bp	С	D ⁽¹⁾	E ⁽¹⁾	е	HE	L	Lp	Q	v	w	у	z ⁽¹⁾	θ
mm	2.65	0.3 0.1	2.45 2.25	0.25	0.49 0.36	0.32 0.23	15.6 15.2	7.6 7.4	1.27	10.65 10.00	1.4	1.1 0.4	1.1 1.0	0.25	0.25	0.1	0.9 0.4	8°
inches	0.1	0.012 0.004	0.096 0.089	0.01	0.019 0.014	0.013 0.009	0.61 0.60	0.30 0.29	0.05	0.419 0.394	0.055	0.043 0.016	0.043 0.039	0.01	0.01	0.004	0.035 0.016	0°

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
SOT137-1	075E05	MS-013				99-12-27 03-02-19

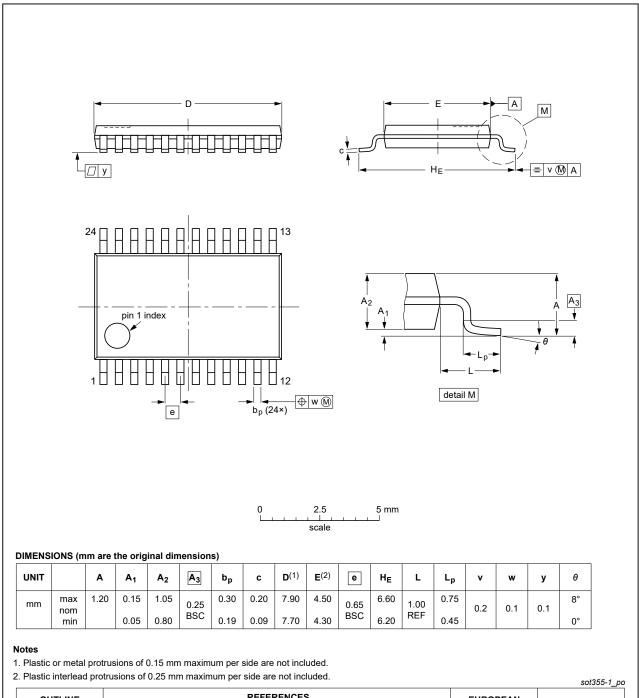
Fig. 7. Package outline SOT137-1 (SO24)

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

SOT355-1



	OUTLINE VERSION	REFERENCES			EUROPEAN	ISSUE DATE	
		IEC	JEDEC	EIAJ		PROJECTION	ISSUE DATE
	SOT355-1		MO-153				03-02-19 24-11-07
			I .			,	

Fig. 8. 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

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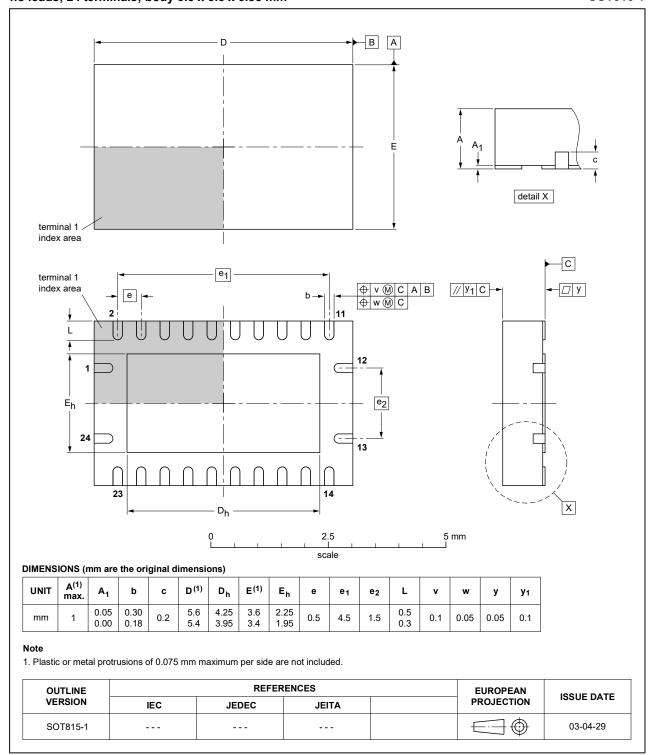


Fig. 9. Package outline SOT815-1 (DHVQFN24)

Octal dual supply translating transceiver; 3-state

12. Abbreviations

Table 10. Abbreviations

Acronym	Description	
CMOS	Complementary Metal-Oxide Semiconductor	
DUT	Device Under Test	
ESD	ElectroStatic Discharge	
НВМ	Human Body Model	
TTL	Transistor-Transistor Logic	

13. Revision history

Table 11. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes	
74LVC4245A v.15	20241129	Product data sheet	-	74LVC4245A v.14	
Modifications:	• Fig. 8: Align	ned TSSOP package outl	ine drawing to JEDI	EC MO-153.	
74LVC4245A v.14	20230901	Product data sheet	-	74LVC4245A v.13	
Modifications:	Section 2: E	ESD specification updated	d according to the la	atest JEDEC standard.	
74LVC4245A v.13	20210827	Product data sheet	-	74LVC4245A v.12	
Modifications:	Type number	er 74LVC4245ADB (SOT	340-1/SSOP24) rer	noved.	
74LVC4245A v.12	20210412	Product data sheet	-	74LVC4245A v.11	
Modifications:	Section 9: A	Δl _{CC} conditions have cha	nged.		
74LVC4245A v.11	20200922	Product data sheet	-	74LVC4245A v.10	
741)/04045440	 Legal texts have been adapted to the new company name where ap Section 1 updated. Table 4: Derating values for P_{tot} total power dissipation updated. Measurement points related to Fig. 4 and Fig. 5 are given in Table 8. 				
74LVC4245A v.10	20121218	Product data sheet		74114040454	
Modifications:			-	74LVC4245A v.9	
Wodinodione.	V _{CC(A}) and	$V_{CC(B)}$ changed into V_{CC}	(A) and V _{CC(B)} (errat		
74LVC4245A v.9	• V _{CC(A}) and 20121120		(A) and V _{CC(B)} (errat		
74LVC4245A v.9	20121120	V _{CC(B}) changed into V _{CC}	-	a) 74LVC4245A v.8	
	20121120	V _{CC(B)} changed into V _{CC(B)} Product data sheet	-	a) 74LVC4245A v.8	
74LVC4245A v.9 Modifications:	20121120 • Section 5.1	V _{CC(B)} changed into V _{CC(B)} Product data sheet : Pin configuration drawin	-	a) 74LVC4245A v.8 VQFN24 package	
74LVC4245A v.9 Modifications: 74LVC4245A v.8	20121120 • Section 5.1 20111122	V _{CC(B)} changed into V _{CC} Product data sheet : Pin configuration drawir Product data sheet	-	74LVC4245A v.8 /QFN24 package /4LVC4245A v.7	
74LVC4245A v.9 Modifications: 74LVC4245A v.8 74LVC4245A v.7	20121120 • Section 5.1 20111122 20110812	V _{CC(B)} changed into V _{CC(B)} Product data sheet : Pin configuration drawir Product data sheet Product data sheet	-	74LVC4245A v.8 VQFN24 package 74LVC4245A v.7 74LVC4245A v.6	
74LVC4245A v.9 Modifications: 74LVC4245A v.8 74LVC4245A v.7 74LVC4245A v.6	20121120 • Section 5.1 20111122 20110812 20080118	V _{CC(B)} changed into V _{CC(B)} Product data sheet : Pin configuration drawin Product data sheet Product data sheet Product data sheet	- ng corrected for DH\ - -	74LVC4245A v.8 /QFN24 package 74LVC4245A v.7 74LVC4245A v.6 74LVC4245A v.5	
74LVC4245A v.9 Modifications: 74LVC4245A v.8 74LVC4245A v.7 74LVC4245A v.6 74LVC4245A v.5	20121120 • Section 5.1 20111122 20110812 20080118 20040330	V _{CC(B)} changed into V _{CC(B)} Product data sheet Product specification	- ng corrected for DH\ - -	74LVC4245A v.8 VQFN24 package 74LVC4245A v.7 74LVC4245A v.6 74LVC4245A v.5 74LVC4245A v.4	
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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.	

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