



74ALVCH16543

16-bit D-type registered transceiver; 3-state

Rev. 4 — 3 July 2024

Product data sheet

1. General description

The 74ALVCH16543 is a 16-bit registered transceiver with bus hold inputs and 3-state outputs. The device can be used as two 8-bit transceivers or one 16-bit transceiver.

Data flow in each direction is controlled by input enable ($\overline{nEAB}$ and $\overline{nEBA}$), latch enable ($\overline{nLEAB}$ and $\overline{nLEBA}$), and output enable ($\overline{nOEAB}$ and $\overline{nOEBA}$) inputs. For A to B data flow, the device operates in the transparent mode when ($\overline{nEAB}$) and ($\overline{nLEAB}$) are LOW. A subsequent LOW-to-HIGH transition of the $\overline{nLEAB}$ input latches the data and the outputs no longer change with the inputs. A HIGH on either $\overline{nEAB}$ or $\overline{nOEAB}$ causes the outputs to assume a high-impedance OFF-state.

Control of data flow from B to A is similar, but using the $\overline{nEBA}$, $\overline{nLEBA}$, and $\overline{nOEBA}$ inputs. This device is fully specified for partial power down applications using I_{OFF} . The I_{OFF} circuitry disables the output, preventing the potentially damaging backflow current through the device when it is powered down.

2. Features and benefits

- Wide supply voltage range from 1.65 V to 3.6 V
- CMOS low power dissipation
- Direct interface with TTL levels
- MULTIBYTE™ flow-through standard pin-out architecture
- Back-to-back registers for storage
- Output drive capability 50 Ω transmission lines at 85 °C
- All data inputs have bushold
- Low inductance multiple V_{CC} and GND pins for minimize noise and ground bounce
- Current drive ± 24 mA at $V_{CC} = 3.0$ V.
- 3-state non-inverting outputs for bus oriented applications
- Complies with JEDEC standards:
 - JESD8-7 (1.65 V to 1.95 V)
 - JESD8-5 (2.3 V to 2.7 V)
 - JESD8C (2.7 V to 3.6 V)
- 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

3. Ordering information

Table 1. Ordering information

Type number	Package			
	Temperature range	Name	Description	Version
74ALVCH16543DGG	-40 °C to +85 °C	TSSOP56	plastic thin shrink small outline package; 56 leads; body width 6.1 mm	SOT364-1

4. Functional diagram

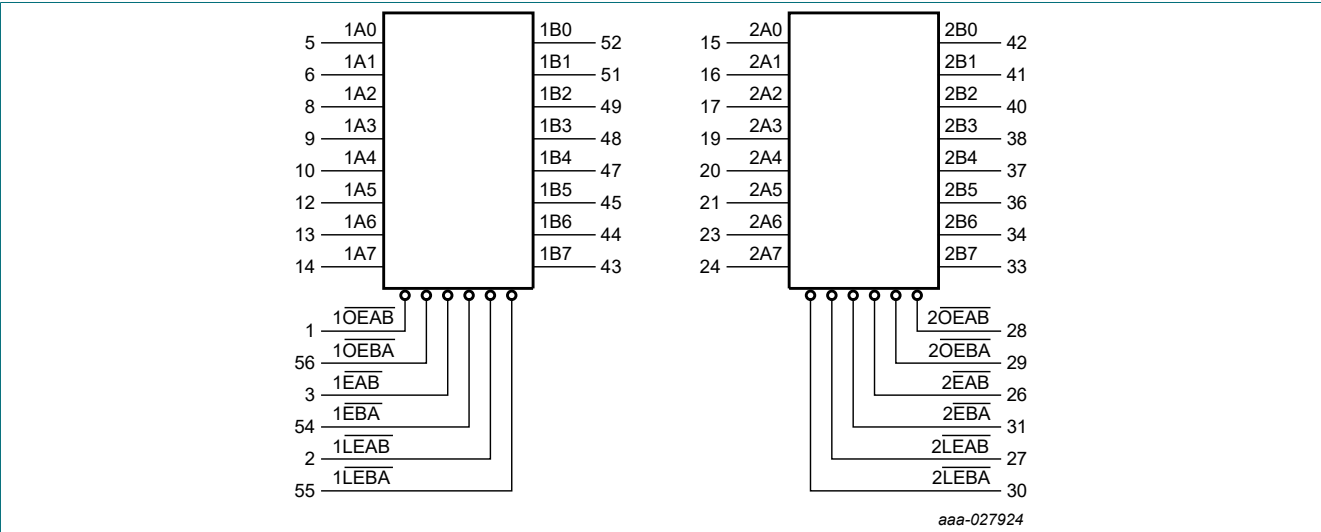


Fig. 1. Logic symbol

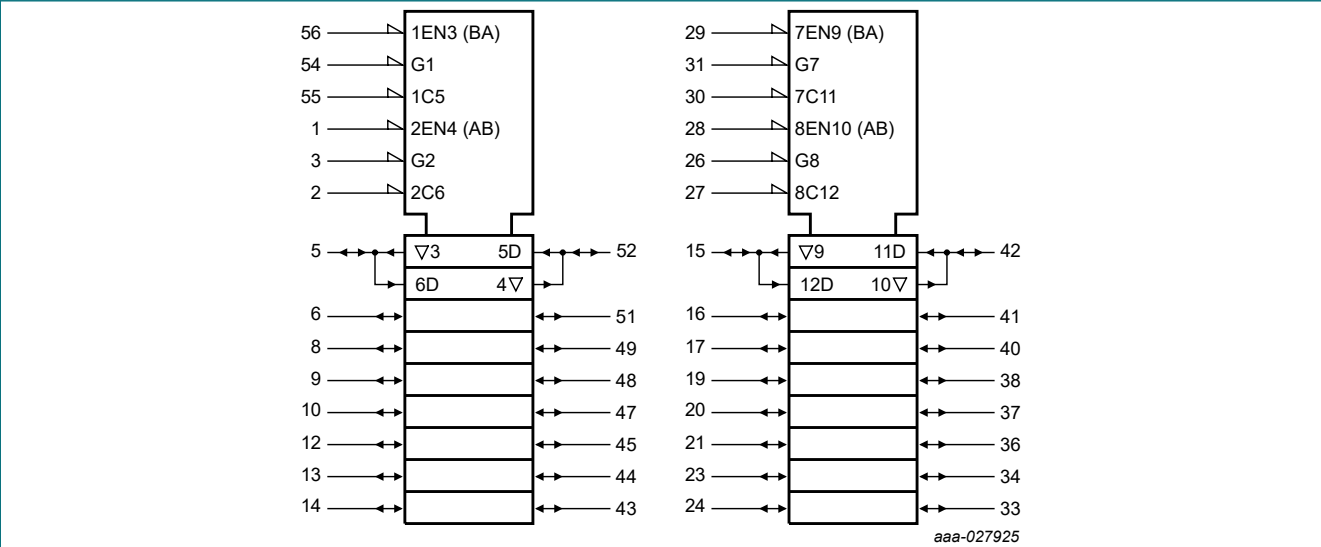


Fig. 2. IEC logic symbol

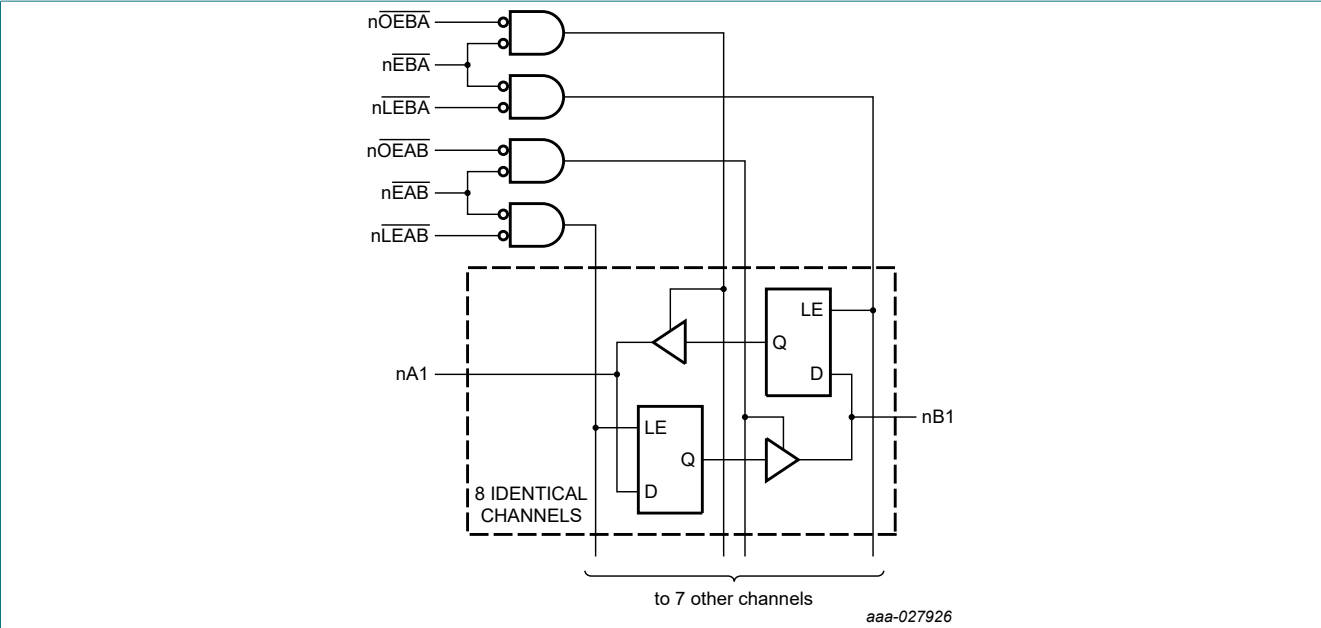


Fig. 3. Logic diagram

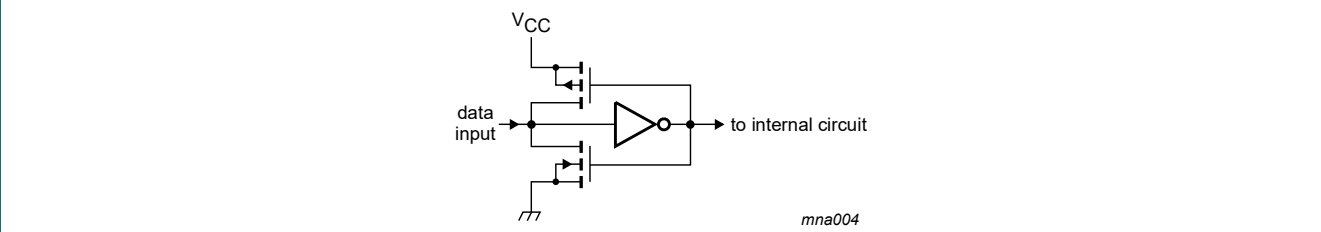
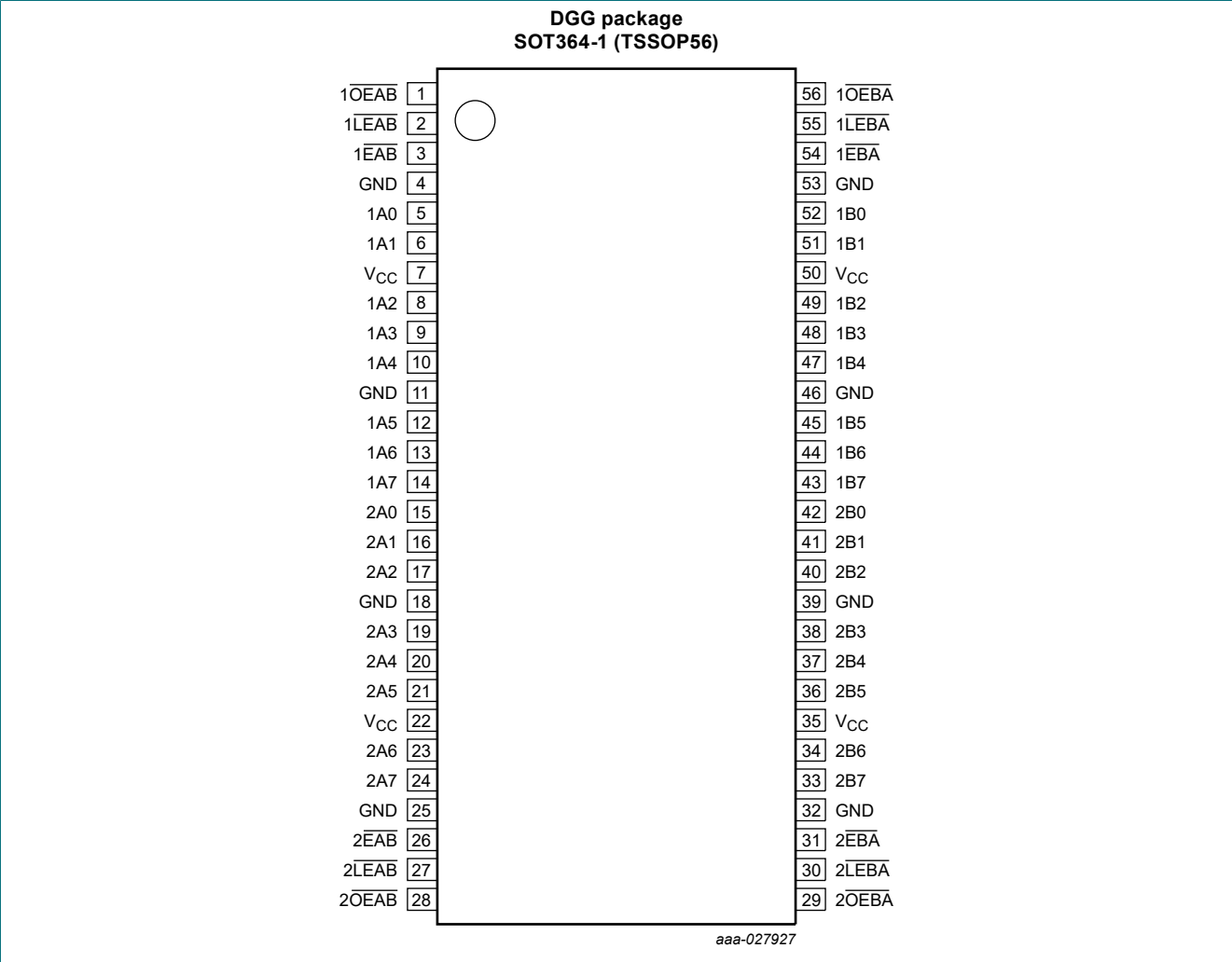


Fig. 4. Bushold circuit

5. Pinning information

5.1. Pinning



5.2. Pin description

Table 2. Pin description

Symbol	Pin	Description
1A0, 1A1, 1A2, 1A3, 1A4, 1A5, 1A6, 1A7	5, 6, 8, 9, 10, 12, 13, 14	data inputs/outputs
2A0, 2A1, 2A2, 2A3, 2A4, 2A5, 2A6, 2A7	15, 16, 17, 19, 20, 21, 23, 24	data inputs/outputs
1B0, 1B1, 1B2, 1B3, 1B4, 1B5, 1B6, 1B7	52, 51, 49, 48, 47, 45, 44, 43	data inputs/outputs
2B0, 2B1, 2B2, 2B3, 2B4, 2B5, 2B6, 2B7	42, 41, 40, 38, 37, 36, 34, 33	data inputs/outputs
1OEAB, 2OEAB	1, 28	A to B output enable inputs (active LOW)
1OEBA, 2OEBA	56, 29	B to A output enable inputs (active LOW)
1EAB, 2EAB	3, 26	A to B enable inputs (active LOW)
1EBA, 2EBA	54, 31	B to A enable inputs (active LOW)
1LEAB, 2LEAB	2, 27	A to B latch enable inputs (active LOW)
1LEBA, 2LEBA	55, 30	B to A latch enable inputs (active LOW)
GND	4, 11, 18, 25, 32, 39, 46, 53	ground (0 V)
V _{CC}	7, 22, 35, 50	supply voltage

6. Functional description

Table 3. Function selection

H = HIGH voltage level;
h = HIGH voltage level one set-up time prior to the LOW-to-HIGH transition of *nLEAB*, *nLEBA*, *nEAB* or *nEBA*;
L = LOW voltage level;
l = LOW voltage level one set-up time prior to the LOW-to-HIGH transition of *nLEAB*, *nLEBA*, *nEAB* or *nEBA*;
↑ = LOW-to-HIGH transition of *nLEAB*, *nLEBA*, *nEAB* or *nEBA*;
NC = no change; X = don't care; Z = high-impedance OFF-state.

Inputs				Outputs	Status
<i>nOEAB</i> or <i>nOEBA</i>	<i>nEAB</i> or <i>nEBA</i>	<i>nLEAB</i> or <i>nLEBA</i>	<i>nAn</i> or <i>nBn</i>	<i>nBn</i> or <i>nAn</i>	
H	X	X	X	Z	disabled
X	H	X	X	Z	disabled
L	↑	L	h	Z	disabled + latch
L	↑	L	l	Z	disabled + latch
L	L	↑	h	H	latch + display
L	L	↑	l	L	latch + display
L	L	L	H	H	transparent
L	L	L	L	L	transparent
L	L	H	X	NC	hold

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}	supply voltage		-0.5	+4.6	V
V _I	input voltage	[1]	-0.5	+4.6	V
V _O	output voltage	[1]	-0.5	V _{CC} + 0.5	V
I _{IK}	input clamping current	V _I < 0 V	-50	-	mA
I _{OK}	output clamping current	V _O > V _{CC} or V _O < 0 V	-	±50	mA
I _O	output current	V _O = 0 V to V _{CC}	-	±50	mA
I _{CC}	supply current		-	100	mA
I _{GND}	ground current		-100	-	mA
T _{stg}	storage temperature		-65	+150	°C
P _{tot}	total power dissipation	T _{amb} = -40 °C to +85 °C	-	500	mW

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

8. Recommended operating conditions

Table 5. Recommended operating conditions

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
V _{CC}	supply voltage	maximum speed performance				
		C _L = 30 pF	2.3	2.5	2.7	V
		C _L = 50 pF	3.0	3.3	3.6	V
		low-voltage applications	1.2	2.4	3.6	V
V _I	input voltage		0	-	V _{CC}	V
V _O	output voltage		0	-	V _{CC}	V
T _{amb}	ambient temperature	in free air	-40	-	+85	°C
Δt/ΔV	input transition rise and fall rate	V _{CC} = 2.3 V to 3.0 V	-	-	20	ns/V
		V _{CC} = 3.0 V to 3.6 V	-	-	10	ns/V

9. Static characteristics

Table 6. Static characteristics

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

Symbol	Parameter	Conditions	-40 to +85 °C			Unit
			Min	Typ[1]	Max	
V _{IH}	HIGH-level input voltage	V _{CC} = 2.3 V to 2.7 V	1.7	1.2	-	V
		V _{CC} = 2.7 V to 3.6 V	2.0	1.5	-	V
V _{IL}	LOW-level input voltage	V _{CC} = 2.3 V to 2.7 V	-	1.2	0.7	V
		V _{CC} = 2.7 V to 3.6 V	-	1.5	0.8	V
V _{OH}	HIGH-level output voltage	V _I = V _{IH} or V _{IL}				
		I _O = -100 µA; V _{CC} = 2.3 V to 3.6 V	V _{CC} - 0.2	V _{CC}	-	V
		I _O = -6 mA; V _{CC} = 2.3 V	V _{CC} - 0.3	V _{CC} - 0.08	-	V
		I _O = -12 mA; V _{CC} = 2.3 V	V _{CC} - 0.6	V _{CC} - 0.26	-	V
		I _O = -12 mA; V _{CC} = 2.7 V	V _{CC} - 0.5	V _{CC} - 0.14	-	V
		I _O = -12 mA; V _{CC} = 3.0 V	V _{CC} - 0.6	V _{CC} - 0.09	-	V
		I _O = -24 mA; V _{CC} = 3.0 V	V _{CC} - 1.0	V _{CC} - 0.28	-	V
V _{OL}	LOW-level output voltage	V _I = V _{IH} or V _{IL}				
		I _O = 100 µA; V _{CC} = 2.3 V to 3.6 V	-	GND	0.20	V
		I _O = 6 mA; V _{CC} = 2.3 V	-	0.07	0.40	V
		I _O = 12 mA; V _{CC} = 2.3 V	-	0.15	0.70	V
		I _O = 12 mA; V _{CC} = 2.7 V	-	0.14	0.40	V
		I _O = 24 mA; V _{CC} = 3.0 V	-	0.27	0.55	V
I _I	input leakage current	V _{CC} = 2.3 V to 3.6 V; V _I = V _{CC} or GND	-	0.1	5	µA
I _{OZ}	OFF-state output current	V _{CC} = 2.3 V to 3.6 V; V _I = V _{IH} or V _{IL} ; V _O = V _{CC} or GND	-	0.1	10	µA
I _{CC}	supply current	V _{CC} = 2.3 V to 3.6 V; V _I = V _{CC} or GND; I _O = 0 A	-	0.2	40	µA
ΔI _{CC}	additional supply current	per data I/O pin; V _{CC} = 2.3 V to 3.6 V; V _I = V _{CC} - 0.6 V; I _O = 0 A	-	150	750	µA
I _{BHL}	bus hold LOW current	V _{CC} = 2.3 V; V _I = 0.7 V	45	-	-	µA
		V _{CC} = 3.0 V; V _I = 0.8 V	75	150	-	µA
I _{BHH}	bus hold HIGH current	V _{CC} = 2.3 V; V _I = 1.7 V	-45	-	-	µA
		V _{CC} = 3.0 V; V _I = 2.0 V	-75	-175	-	µA
I _{BHLO}	bus hold LOW overdrive current	V _{CC} = 3.6 V	500	-	-	µA
I _{BHHO}	bus hold HIGH overdrive current	V _{CC} = 3.6 V	-500	-	-	µA
C _I	input capacitance		-	4.0	-	pF

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

10. Dynamic characteristics

Table 7. Dynamic characteristics

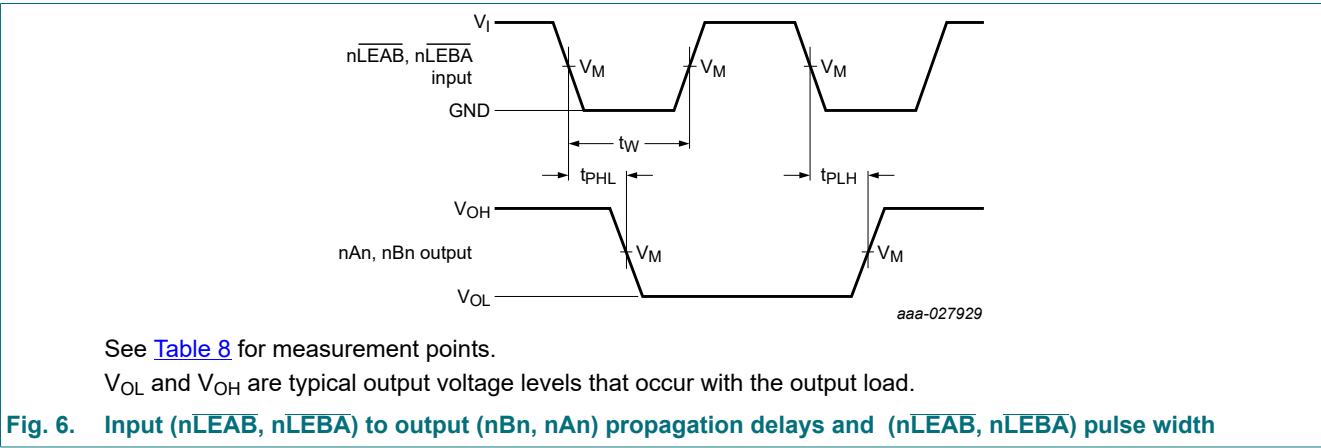
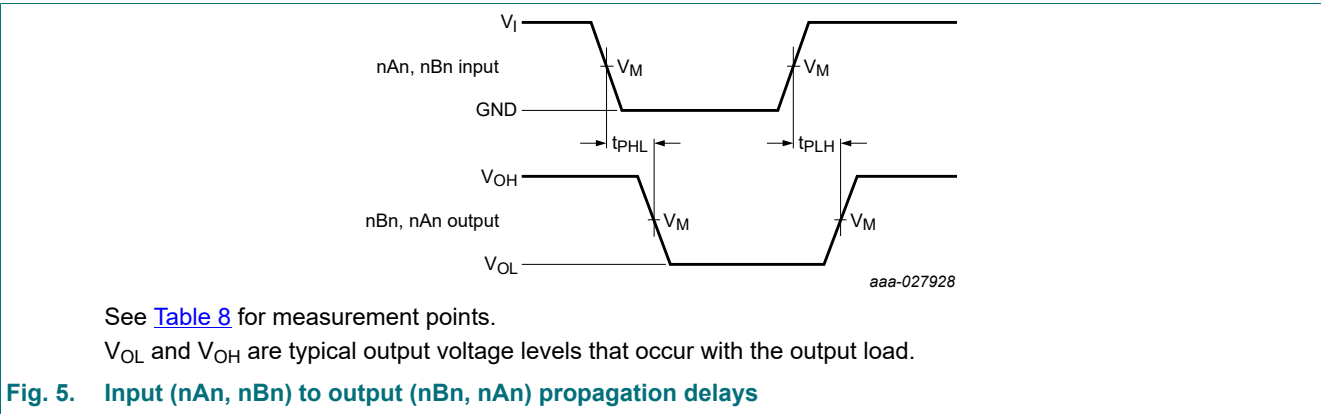
At recommended operating conditions; voltages are referenced to GND (ground = 0 V); for test circuit see Fig. 9.

Symbol	Parameter	Conditions	-40 to +85 °C			Unit
			Min	Typ[1]	Max	
t _{pd}	propagation delay	nAn to nBn; nBn to nAn; see Fig. 5 [2]				
		V _{CC} = 2.3 V to 2.7 V	1.0	3.4	5.1	ns
		V _{CC} = 2.7 V	-	2.9	4.8	ns
		V _{CC} = 3.0 V to 3.6 V	1.0	3.8	4.3	ns
		nLEAB to nBn; nLEBA to nAn; see Fig. 6				
		V _{CC} = 2.3 V to 2.7 V	1.0	3.3	6.5	ns
		V _{CC} = 2.7 V	-	3.6	6.2	ns
		V _{CC} = 3.0 V to 3.6 V	1.4	3.1	5.0	ns
t _{en}	enable time	nOEBA to nAn; nOEAB to nBn; see Fig. 7 [3]				
		V _{CC} = 2.3 V to 2.7 V	1.0	3.3	6.8	ns
		V _{CC} = 2.7 V	-	3.4	6.3	ns
		V _{CC} = 3.0 V to 3.6 V	1.0	2.9	5.3	ns
		nEBA to nAn; nEAB to nBn; see Fig. 7				
		V _{CC} = 2.3 V to 2.7 V	1.0	3.3	7.2	ns
		V _{CC} = 2.7 V	-	3.5	6.9	ns
		V _{CC} = 3.0 V to 3.6 V	1.0	3.0	5.6	ns
t _{dis}	disable time	nOEBA to nAn; nOEAB to nBn; see Fig. 7 [4]				
		V _{CC} = 2.3 V to 2.7 V	1.0	2.9	5.7	ns
		V _{CC} = 2.7 V	-	3.3	4.8	ns
		V _{CC} = 3.0 V to 3.6 V	1.0	3.2	4.6	ns
		nEBA to nAn; nEAB to nBn; see Fig. 7				
		V _{CC} = 2.3 V to 2.7 V	1.3	3.3	6.1	ns
		V _{CC} = 2.7 V	-	3.5	6.2	ns
		V _{CC} = 3.0 V to 3.6 V	1.1	3.3	5.1	ns
t _w	pulse width	nLEAB, nLEBA LOW; see Fig. 6				
		V _{CC} = 2.3 V to 2.7 V	3.3	1.2	-	ns
		V _{CC} = 2.7 V	3.3	1.3	-	ns
		V _{CC} = 3.0 V to 3.6 V	3.3	0.9	-	ns
t _{su}	set-up time	nAn to nLEAB; nBn to nLEBA; nAn to nEAB; nBn to nEBA; see Fig. 8				
		V _{CC} = 2.3 V to 2.7 V	1.2	0.2	-	ns
		V _{CC} = 2.7 V	0.8	0.2	-	ns
		V _{CC} = 3.0 V to 3.6 V	1.3	0.1	-	ns
t _h	hold time	nAn to nLEAB; nBn to nLEBA; nAn to nEAB; nBn to nEBA; see Fig. 8				
		V _{CC} = 2.3 V to 2.7 V	1.2	0.2	-	ns
		V _{CC} = 2.7 V	0.4	0.1	-	ns
		V _{CC} = 3.0 V to 3.6 V	0.7	0.2	-	ns

Symbol	Parameter	Conditions	-40 to +85 °C			Unit
			Min	Typ[1]	Max	
C _{PD}	power dissipation capacitance	per latch; V _I = GND to V _{CC} [5]				
		outputs enabled	-	44	-	pF
		outputs disabled	-	14	-	pF

- [1] Typical values are measured at T_{amb} = 25 °C
Typical values for V_{CC} = 2.3 V to 2.7 V are measured at V_{CC} = 2.5 V.
Typical values for V_{CC} = 3.0 V to 3.6 V are measured at V_{CC} = 3.3 V.
- [2] t_{pd} is the same as t_{PLH} and t_{PHL}.
- [3] t_{en} is the same as t_{PZL} and t_{PZH}.
- [4] t_{dis} is the same as t_{PLZ} and t_{PHZ}.
- [5] C_{PD} is used to determine the dynamic power dissipation (P_D in μW).
 $P_D = C_{PD} \times V_{CC}^2 \times f_i \times N + \sum (C_L \times V_{CC}^2 \times f_o)$ 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 V;
N = total load switching outputs;
Σ(C_L × V_{CC}² × f_o) = sum of outputs.

10.1. Waveforms and test circuit



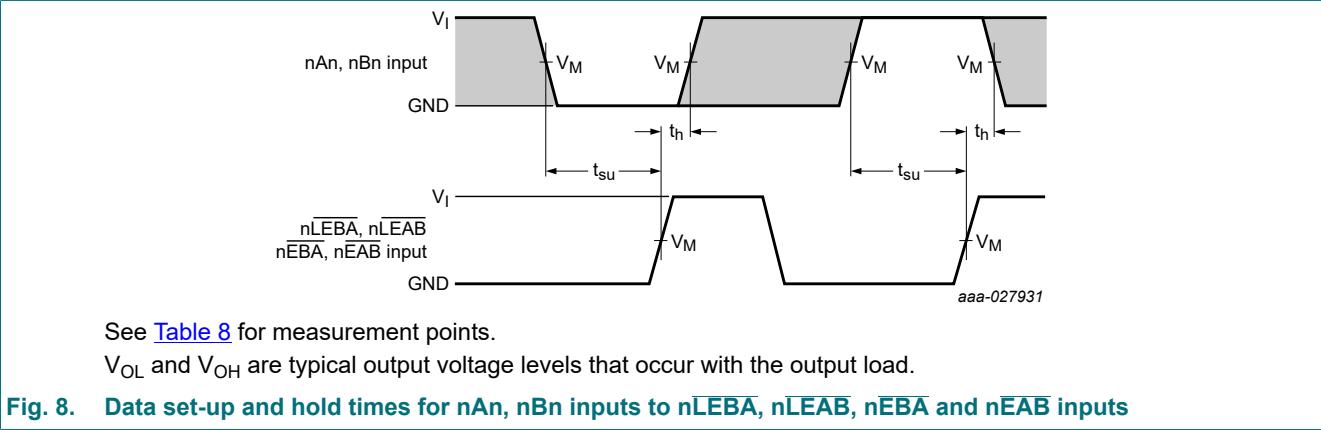
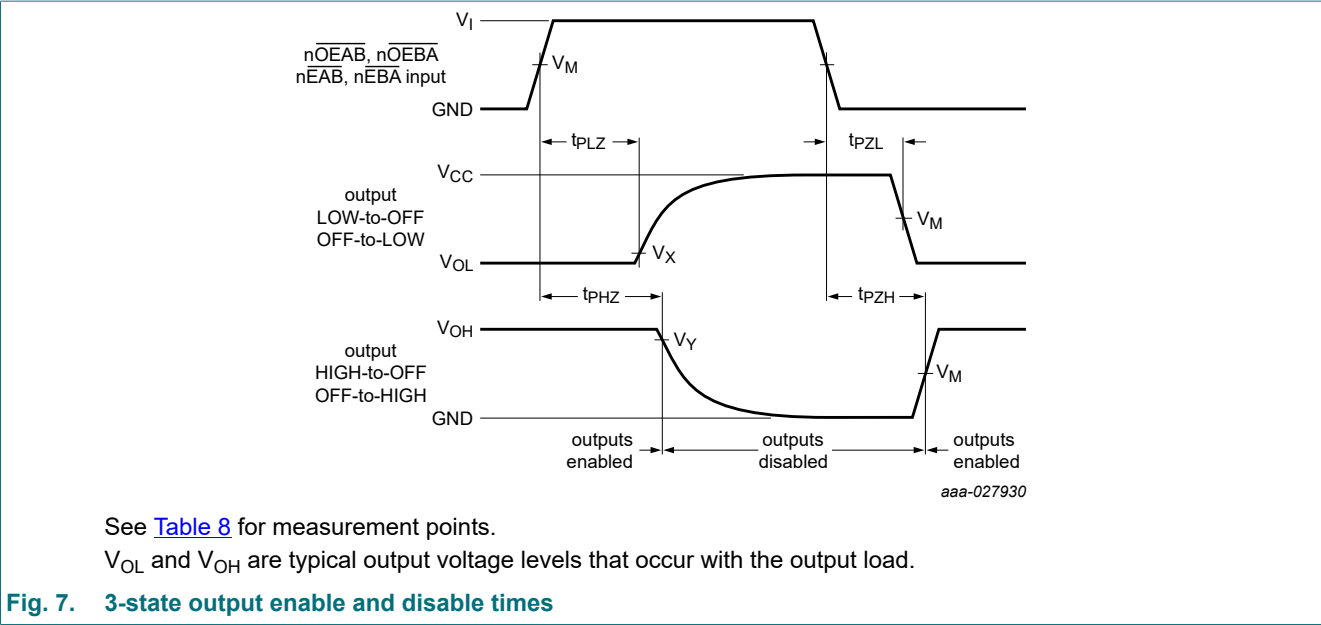
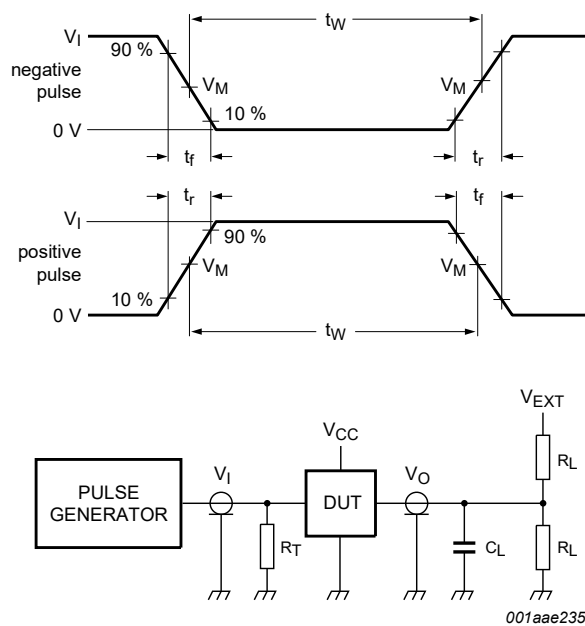


Table 8. Measurement points

Input			Output		
V_{CC}	V_I	V_M	V_M	V_x	V_y
2.3 V to 2.7 V	V_{CC}	$0.5 \times V_{CC}$	$0.5 \times V_{CC}$	$V_{OL} + 0.15 \text{ V}$	$V_{OH} - 0.15 \text{ V}$
2.7 V	2.7 V	1.5 V	1.5 V	$V_{OL} + 0.3 \text{ V}$	$V_{OH} - 0.3 \text{ V}$
3.0 V to 3.6 V	2.7 V	1.5 V	1.5 V	$V_{OL} + 0.3 \text{ V}$	$V_{OH} - 0.3 \text{ V}$



Test data is given in [Table 9](#).
Definitions test circuit:
 R_L = Load resistance;
 C_L = Load capacitance including jig and probe capacitance;
 R_T = Termination resistance should be equal to output impedance Z_o of the pulse generator;
 V_{EXT} = External voltage for measuring switching times.

Fig. 9. Test circuit for measuring switching times

Table 9. Test data

Input			Load		V_{EXT}		
V_{CC}	V_I	t_r, t_f	R_L	C_L	t_{PHZ}, t_{PZH}	t_{PLZ}, t_{PZL}	t_{PLH}, t_{PHL}
2.3 V to 2.7 V	V_{CC}	≤ 2.0 ns	500 Ω	30 pF	GND	$2 \times V_{CC}$	open
2.7 V	2.7 V	≤ 2.5 ns	500 Ω	50 pF	GND	$2 \times V_{CC}$	open
3.0 V to 3.6 V	2.7 V	≤ 2.5 ns	500 Ω	50 pF	GND	$2 \times V_{CC}$	open

11. Package outline

TSSOP56: plastic thin shrink small outline package; 56 leads; body width 6.1 mm

SOT364-1

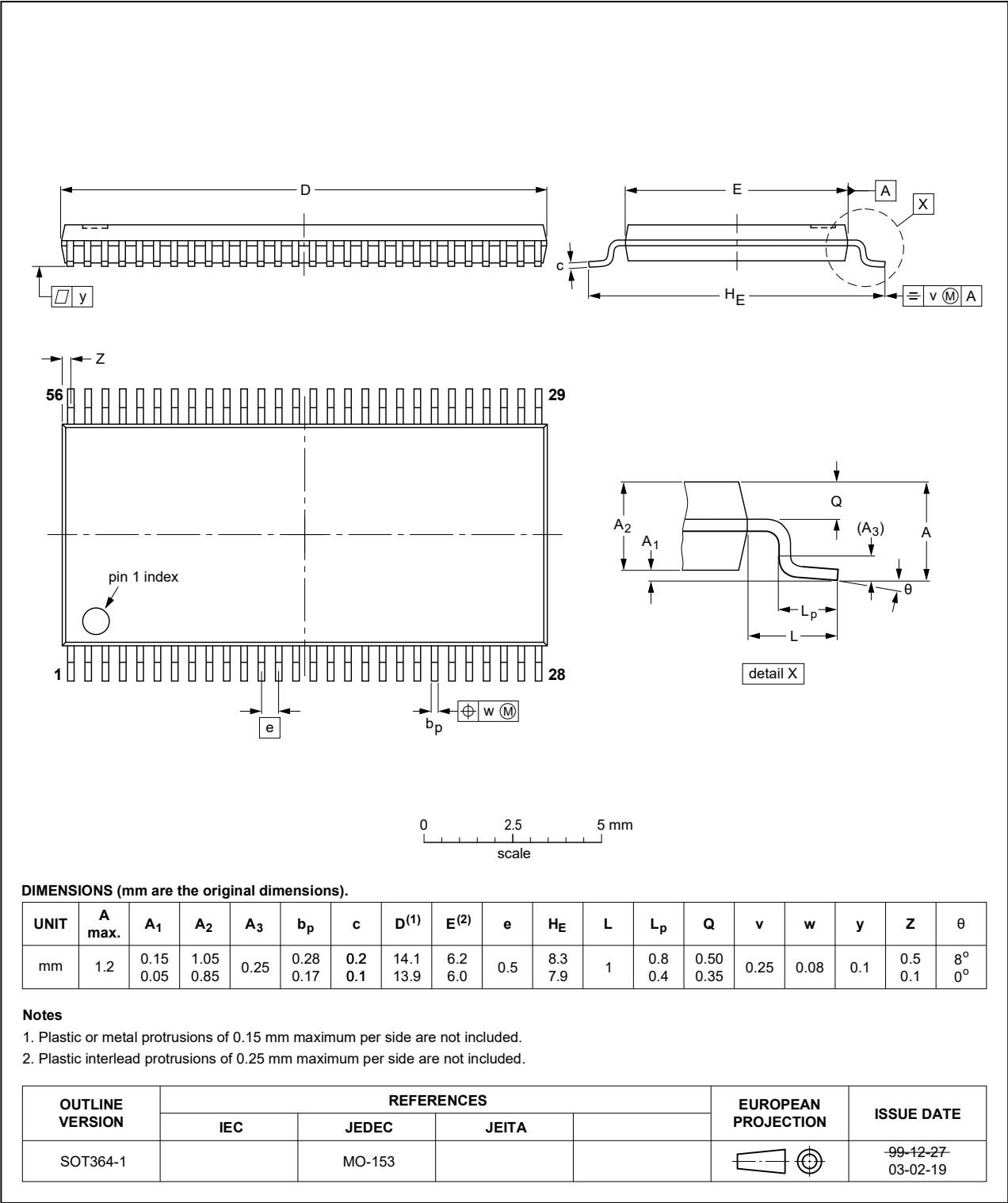


Fig. 10. Package outline SOT364-1 (TSSOP56)

12. Abbreviations

Table 10. 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
HBM	Human Body Model
JEDEC	Joint Electron Device Engineering Council
TTL	Transistor-Transistor Logic

13. Revision history

Table 11. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
74ALVCH16543 v.4	20240703	Product data sheet	-	74ALVCH16543 v.3
Modifications:	• Section 1 updated. • Section 2 updated, including ESD specifications. • Table 4: P_{tot} total power dissipation updated.			
74ALVCH16543 v.3	20171215	Product data sheet	-	74ALVCH16543 v.2
Modifications:	• 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.			
74ALVCH16543 v.2	19991123	Product specification	-	74ALVCH16543 v.1
74ALVCH16543 v.1	19980831	Product specification	-	-

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.

- [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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Date of release: 3 July 2024