16-bit bus transceiver/register; 3-state Rev. 3 — 11 September 2018

1. General description

The 74ALVCH16646 consists of 16 non-inverting bus transceiver circuits with 3-state outputs, D-type flip-flops and control circuitry arranged for multiplexed transmission of data directly from the internal registers. Data on the 'A' or 'B' bus will be clocked in the internal registers, as the appropriate clock (nCPAB or nCPBA) goes to a HIGH logic level. Output enable (nOE) and direction (nDIR) inputs are provided to control the transceiver function. In the transceiver mode, data present at the high-impedance port may be stored in either the 'A' or 'B' register, or in both. The select source inputs (nSAB and nSBA) can multiplex stored and real-time (transparent mode) data. The direction (nDIR) input determines which bus will receive data when nOE is active (LOW). In the isolation mode (nOE = HIGH), 'A' data may be stored in the 'B' register and/or 'B' data may be stored in the 'A' register.

When an output function is disabled, the input function is still enabled and may be used to store and transmit data. Only one of the two buses, 'A' or 'B' may be driven at a time.

To ensure the high impedance state during power up or power down, n \overline{OE} should be tied to V_{CC} through a pullup resistor; the minimum value of the resistor is determined by the current-sinking/ current-sourcing capability of the driver.

Active bus-hold circuitry is provided to hold unused or floating data inputs at a valid logic level.

2. Features and benefits

- Wide supply voltage range of 2.3 V to 3.6 V
- CMOS low power consumption
- Direct interface with TTL levels
- Current drive ±24 mA at V_{CC} = 3.0 V.
- MULTIBYTE flow-through standard pin-out architecture
- Low inductance multiple V_{CC} and GND pins for minimize noise and ground bounce
- All data inputs have bushold
- Output drive capability 50 Ω transmission lines at 85 °C
- Complies with JEDEC standards:
 - JESD8-5 (2.3 V to 2.7 V)
 - JESD8B/JESD36 (2.7 V to 3.6 V)
- ESD protection:
 - HBM ANSI/ESDA/JEDEC JS-001 exceeds 2000 V
 - CDM JESD22-C101E exceeds 1000 V

3. Ordering information

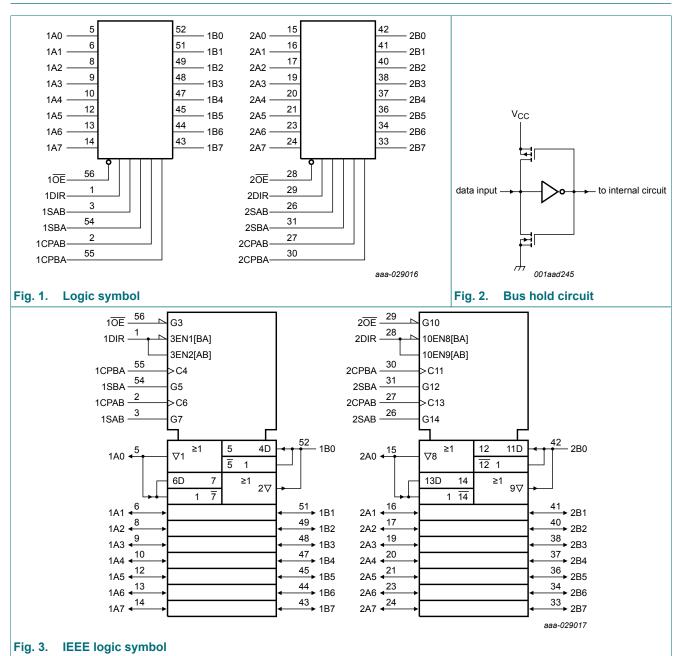
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Type number	Package					
	Temperature range	Name	Description	Version		
74ALVCH16646DGG	−40 °C to +85 °C	TSSOP56	plastic thin shrink small outline package; 56 leads; body width 6.1 mm	SOT364-1		

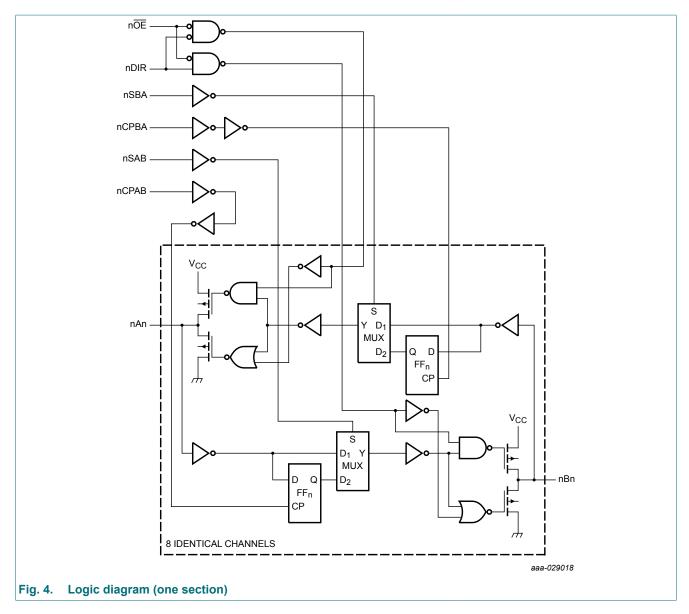
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4. Functional diagram



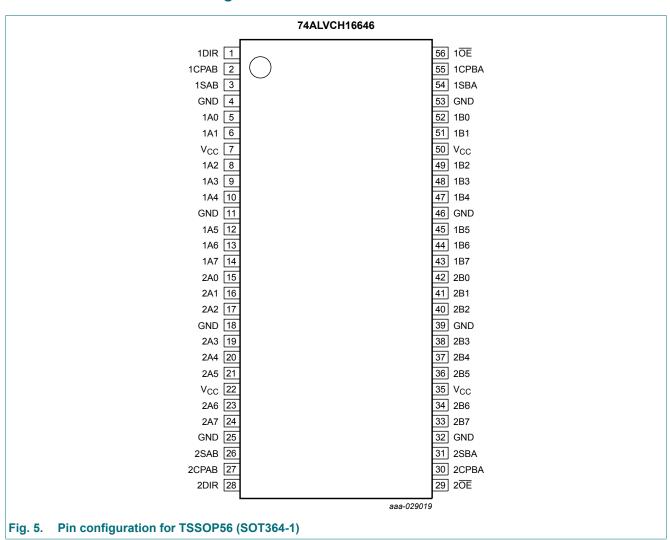
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5. Pinning information



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 input/output
2A0, 2A1, 2A2, 2A3, 2A4, 2A5, 2A6, 2A7	15, 16, 17, 19, 20, 21, 23, 24	data input/output
1B0, 1B1, 1B2, 1B3, 1B4, 1B5, 1B6, 1B7	52, 51, 49, 48, 47, 45, 44, 43	data output/input
2B0, 2B1, 2B2, 2B3, 2B4, 2B5, 2B6, 2B7	42, 41, 40, 38, 37, 36, 34, 33	data output/input
10E, 20E	56, 29	output enable input (active-LOW)
1DIR, 2DIR	1, 28	direction control input
1SAB, 2SAB	3, 26	delect input A-to-B
1CPAB, 2CPAB	2, 27	clock input A-to-B
1SBA, 2SBA	54, 31	select input B-to-A
1CPBA, 2CPBA	55, 30	clock input B-to-A
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; L = LOW voltage level; X = don't care; $\uparrow = LOW$ -to-HIGH clock transition;

Operating mode	Inputs						Data I/O		
	n <mark>OE</mark>	nDIR	nCPAB	nCPBA	nSAB	nSBA	nAn	nBn	
store A, B unspecified[1]	Х	Х	1	Х	Х	Х	input	unspecified[1]	
store B, A unspecified[1]	Х	Х	Х	1	Х	Х	unspecified[1]	input	
store A and B data, isolation	Н	Х	1	1	Х	Х	input	input	
hold storage	Н	Х	H or L	H or L	Х	Х	input	input	
real-time B data to A bus	L	L	Х	Х	Х	L	output	input	
stored B data to A bus	L	L	Х	H or L	Х	Н	output	input	
real-time A data to B bus	L	Н	Х	Х	L	Х	input	output	
stored A data to B bus	L	Н	H or L	Х	Н	Х	input	output	

[1] The data output functions may be enabled or disabled by various signals at the \overline{OE} and DIR inputs. Data input functions are always enabled, i.e., data at the bus inputs will be stored on every LOW-to-HIGH transition on the clock inputs.

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
VI	input voltage	data inputs [1]	-0.5	V _{CC} + 0.5	V
		control inputs [1]	-0.5	+4.6	V
Vo	output voltage	[1]	-0.5	V _{CC} + 0.5	V
I _{IK}	input clamping current	V ₁ < 0 V	-50	-	mA
I _{OK}	output clamping current	$V_{\rm O}$ > $V_{\rm CC}$ or $V_{\rm O}$ < 0 V	-	±50	mA
I _{O (sink/source)}	output sink or source current	$V_{O} = 0 V \text{ to } V_{CC}$	-	±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	$T_{amb} = -40 \text{ °C to } +85 \text{ °C}$ [2]	-	600	mW

The input and output voltage ratings may be exceeded if the input and output current ratings are observed. For TSSOP56 packages: above 55 $^{\circ}$ C derate linearly with 8 mW/K. [1]

[2]

8. Recommended operating conditions

Table 5 Recommended operating conditions

Symbol	Parameter	Conditions	Min	Max	Unit
V _{CC}	supply voltage	for maximum speed performance; 30 pF output load	2.3	2.7	V
		for maximum speed performance; 50 pF output load	3.0	3.6	V
VI	input voltage		0	V _{CC}	V
Vo	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). T_{amb} = -40 °C to +85 °C

Symbol	Parameter	Conditions	Min	Typ[1]	Мах	Unit
V _{IH}	HIGH-level	V _{CC} = 2.3 V to 2.7 V	1.7	1.2	-	V
input voltage		V _{CC} = 2.7 V to 3.6 V	2.0	1.5	-	V
V _{IL}	LOW-level	V _{CC} = 2.3 V to 2.7 V	-	1.2	0.7	V
	input voltage	V _{CC} = 2.7 V to 3.6 V	-	1.5	0.8	V
V _{OH}	HIGH-level	$V_{I} = V_{IH}$ or V_{IL}				
	output voltage	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	$V_{I} = V_{IH}$ or V_{IL}				
	output voltage	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
lı	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} = 2.7 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	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	V _{CC} = 2.3 V; V _I = 0.7 V	45	-	-	μA
	current	V _{CC} = 3.0 V; V _I = 0.8 V	75	150	-	μA
I _{BHH}	bus hold HIGH	V _{CC} = 2.3 V; V _I = 1.7 V	-45	-	-	μA
	current	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
CI	input capacitance		-	3.0	_	pF

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

10. Dynamic characteristics

Table 7. Dynamic characteristics

Voltages are referenced to GND (ground = 0 V). For test circuit, see Fig. 11.

Symbol	I Parameter Conditions			Typ [1]	Мах	Unit
t _{pd}	propagation delay	nAn to nBn; nBn to nAn; see Fig. 6 [2]				
чра		V _{CC} = 2.3 V to 2.7 V	1.0	2.7	4.8	ns
		V _{CC} = 2.7 V	1.0	2.8	4.5	ns
		V _{CC} = 3.0 V to 3.6 V	1.0	2.6	3.9	ns
		nCPAB to nBn; nCPBA to nAn; see Fig. 7				
		V _{CC} = 2.3 V to 2.7 V	1.0	3.4	5.6	ns
		V _{CC} = 2.7 V	1.4	3.1	5.2	ns
		V _{CC} = 3.0 V to 3.6 V	1.4	2.9	4.5	ns
		nSAB to nBn; nSBA to nAn; see Fig. 8				
		V _{CC} = 2.3 V to 2.7 V	1.0	3.4	6.8	ns
		V _{CC} = 2.7 V	1.3	3.5	6.4	ns
		V _{CC} = 3.0 V to 3.6 V	1.3	3.1	5.3	ns
t _{en}	enable time	nOE to nAn; nOE to nBn; see Fig. 10 [3]				
		V _{CC} = 2.3 V to 2.7 V	1.0	3.3	6.5	ns
		$V_{CC} = 2.7 V$	1.0	3.2	6.2	ns
		V _{CC} = 3.0 V to 3.6 V	1.0	2.3	5.1	ns
		nDIR to nAn; nDIR to nBn; see Fig. 10 [3]				
		V _{CC} = 2.3 V to 2.7 V	1.0	3.4	7.8	ns
		$V_{CC} = 2.7 V$	1.4	3.4	6.2	ns
		V _{CC} = 3.0 V to 3.6 V	1.4	3.0	5.1	ns
t _{dis}	disable time	nOE to nAn; nOE to nBn; see Fig. 10 [4]				
		V _{CC} = 2.3 V to 2.7 V	1.6	2.8	5.7	ns
		$V_{CC} = 2.7 V$	1.0	3.1	5.0	ns
		V _{CC} = 3.0 V to 3.6 V	1.0	2.9	4.7	ns
		nDIR to nAn; nDIR to nBn; see Fig. 10 [4]				
		V _{CC} = 2.3 V to 2.7 V	1.5	3.0	6.5	ns
		V _{CC} = 2.7 V	1.4	3.3	6.0	ns
		V _{CC} = 3.0 V to 3.6 V	1.4	2.5	5.3	ns
tw	pulse width	nCPAB HIGH or LOW; nCPBA HIGH or LOW; see Fig. 7				
		V _{CC} = 2.3 V to 2.7 V	3.3	1.2	-	ns
		V _{CC} = 2.7 V	3.3	1.0	-	ns
		V _{CC} = 3.0 V to 3.6 V	3.3	0.7	-	ns
t _{su}	set-up time	nAn to nCPAB; nBn to nCPBA; see Fig. 9				-
		V _{CC} = 2.3 V to 2.7 V	1.6	0.2	-	ns
		V _{CC} = 2.7 V	1.7	0.2	-	ns
		$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$	1.4	0.3	-	ns

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Symbol	Parameter	Conditions	Min	Тур [1]	Мах	Unit
t _h	hold time	nAn to nCPAB; nBn to nCPBA; see Fig. 9				
		V _{CC} = 2.3 V to 2.7 V	0.6	0.1	-	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
f _{max}	maximum frequency	nCPAB; nCPBA; see Fig. 7				
		V _{CC} = 2.3 V to 2.7 V	150	300	-	MHz
		V _{CC} = 2.7 V	150	320	-	MHz
		V _{CC} = 3.0 V to 3.6 V	150	320	-	MHz
· - ·	power dissipation	per channel; $V_I = GND$ to V_{CC} [5]				
	capacitance	output enabled	-	36	-	pF
		output disabled	-	4	-	pF

[2] t_{pd} is the same as t_{PHL} and t_{PLH} .

[3] t_{en} is the same as t_{PZH} and t_{PZL} .

[4] t_{dis} is the same as t_{PHZ} and t_{PLZ} .

[5] C_{PD} is used to determine the dynamic power dissipation (P_D in μ W):

 $P_{D} = C_{PD} \times V_{CC}^{2} \times f_{i} \times N + \sum (C_{L} \times V_{CC}^{2} \times f_{o}) \text{ where:}$

 f_i = input frequency in MHz;

f_o = output frequency in MHz;

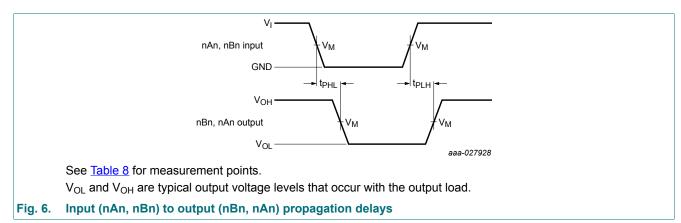
 $\rm C_L$ = output load capacitance in pF;

 V_{CC} = supply voltage in V;

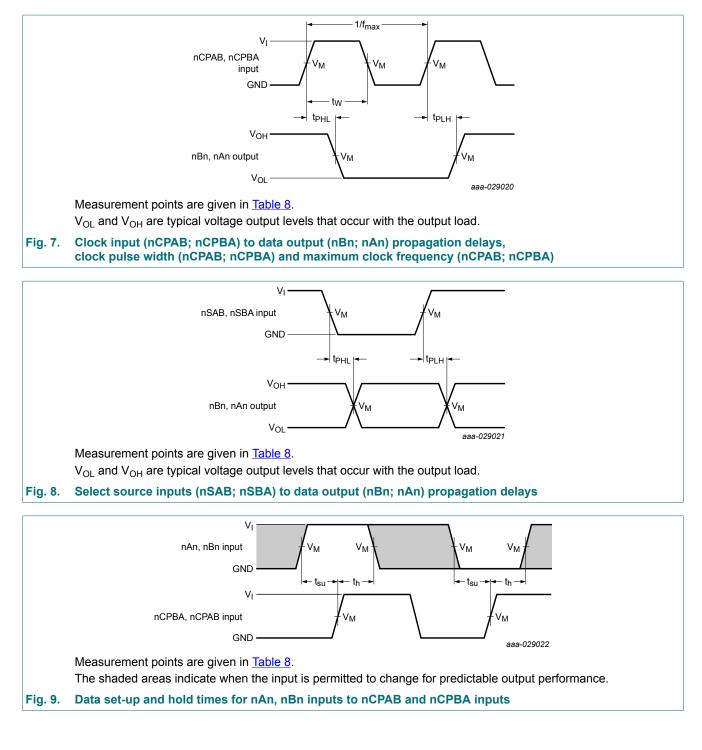
N = number of inputs switching;

 $\sum (C_L \times V_{CC}^2 \times f_0)$ = sum of outputs.

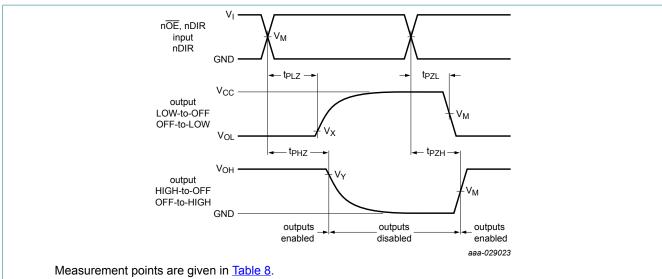
10.1. Waveforms and test circuit



16-bit bus transceiver/register; 3-state



16-bit bus transceiver/register; 3-state



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

Fig. 10. 3-state enable and disable times.

Table 8. Measurement points

Supply voltage	Input		Output			
V _{cc}	VI	V _M	V _M	V _X	V _Y	
2.3 V to 2.7 V	V _{CC}	0.5 x V _{CC}	0.5 x V _{CC}	V _{OL} + 0.15 V	V _{OH} - 0.15 V	
2.7 V	2.7 V	1.5 V	1.5 V	V _{OL} + 0.3 V	V _{OH} - 0.3 V	
3.0 V to 3.6 V	2.7 V	1.5 V	1.5 V	V _{OL} + 0.3 V	V _{OH} - 0.3 V	

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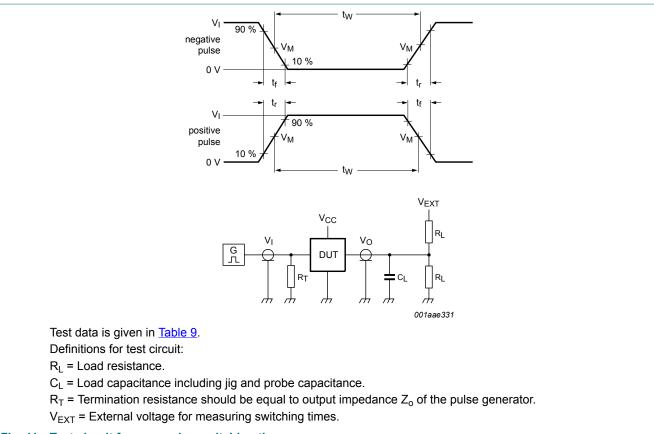
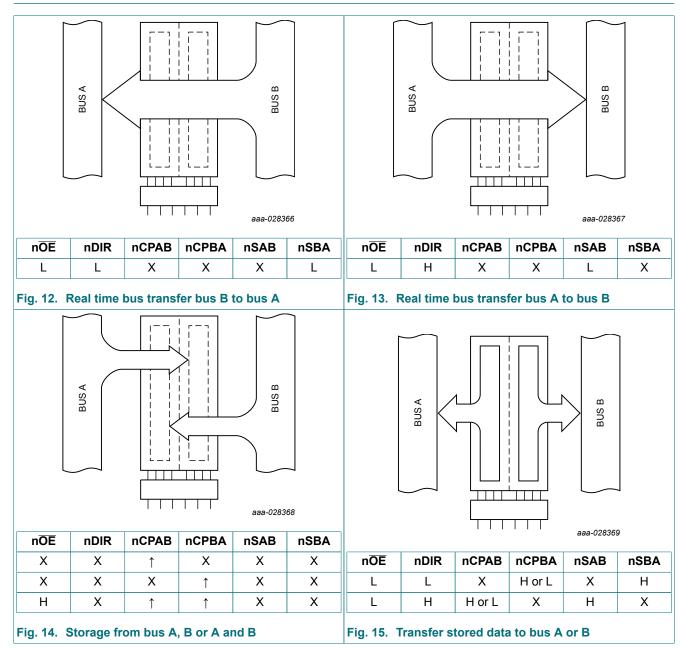


Fig. 11. Test circuit for measuring switching times

Table 9. Test data

Supply voltage	Input		Load	Load		V _{EXT}		
V _{cc}	VI	t _r , t _f	CL	RL	t _{PLH} , t _{PHL}	t _{PLZ} , t _{PZL}	t _{PHZ} , t _{PZH}	
2.3 V to 2.7 V	V _{CC}	≤ 2.0 ns	30 pF	500 Ω	open	$2 \times V_{CC}$	GND	
2.7 V	2.7 V	≤ 2.5 ns	50 pF	500 Ω	open	$2 \times V_{CC}$	GND	
3.0 V to 3.6 V	2.7 V	≤ 2.5 ns	50 pF	500 Ω	open	$2 \times V_{CC}$	GND	

11. Application information



16-bit bus transceiver/register; 3-state

12. Package outline

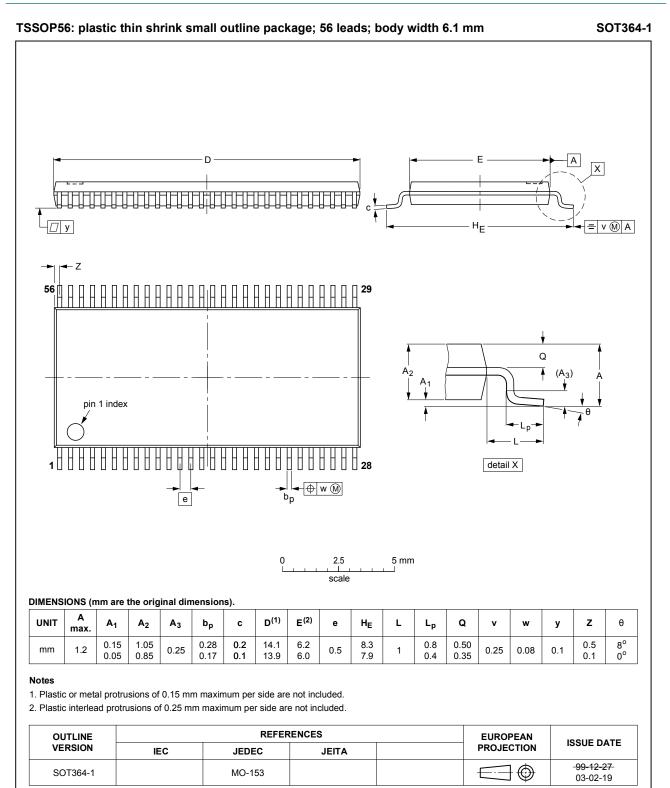


Fig. 16. Package outline SOT364-1 (TSSOP56)

13. Abbreviations

Table 10. Abbreviations					
Acronym	Description				
CDM	Charged Device Model				
CMOS	Complementary Metal-Oxide Semiconductor				
DUT	Device Under Test				
ESD	ElectroStatic Discharge				
НВМ	Human Body Model				
TTL	Transistor-Transistor Logic				

14. Revision history

Table 11. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes	
74ALVCH16646 v.3	20180911	Product data sheet	-	74ALVCH16646 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. 				
74ALVCH16646 v.2	19980903	Product specification	-	74ALVCH16646 v.1	
74ALVCH16646 v.1	19980903	Product specification	-	-	

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 completing a design.

[2] The term 'short data sheet' is explained in section "Definitions".

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