74ALVCH16374

2.5 V/3.3 V 16-bit edge-triggered D-type flip-flop; 3-state

Rev. 6.1 — 7 March 2019

Product data sheet

1. General description

The 74ALVCH16374 is 16-bit edge-triggered flip-flop featuring separate D-type inputs for each flip-flop and 3-state outputs for bus oriented applications.

Incorporates bus hold data inputs which eliminate the need for external pull-up or pull-down resistors to hold unused inputs.

The 74ALVCH16374 consists of 2 sections of eight edge-triggered flip-flops. A clock (CP) input and an output enable (OE) are provided per 8-bit section.

The flip-flops will store the state of their individual D-inputs that meet the set-up and hold time requirements on the LOW-to-HIGH CP transition.

When $\overline{\text{OE}}$ is LOW, the contents of the flip-flops are available at the outputs. When $\overline{\text{OE}}$ is HIGH, the outputs go the high-impedance OFF-state. Operation of the $\overline{\text{OE}}$ input does not affect the state of the flip-flops.

2. Features and benefits

- Wide supply voltage range from 1.2 V to 3.6 V
- Complies with JEDEC standard JESD8-B
- CMOS low power consumption
- MULTIBYTE flow-through standard pin-out architecture
- Low inductance multiple V_{CC} and GND pins for minimum noise and ground bounce
- Direct interface with TTL levels
- All data inputs have bus hold
- Output drive capability 50 Ω transmission lines at 85 °C
- Current drive ±24 mA at V_{CC} = 3.0 V

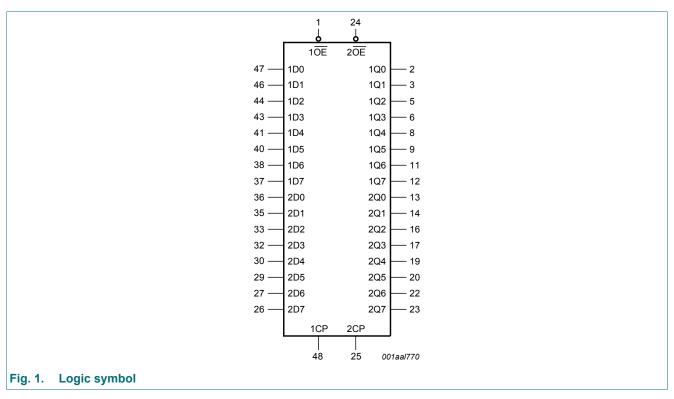
3. Ordering information

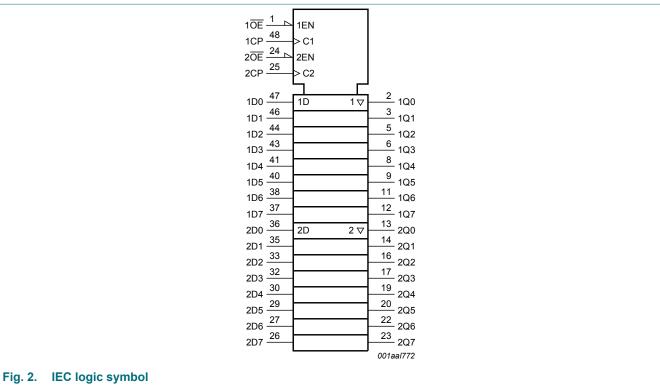
Table 1. Ordering information

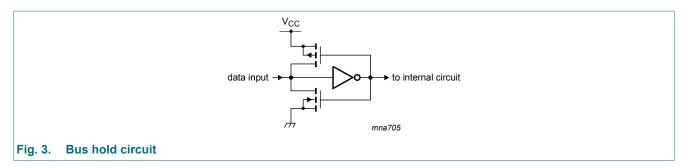
Type number	Temperature range	Package			
		Name	Description	Version	
74ALVCH16374DGG	-40 °C to +85 °C	TSSOP48	plastic thin shrink small outline package; 48 leads; body width 6.1 mm	SOT362-1	

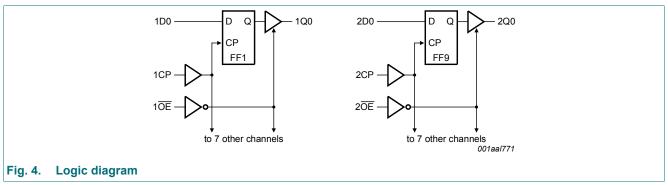


4. Functional diagram



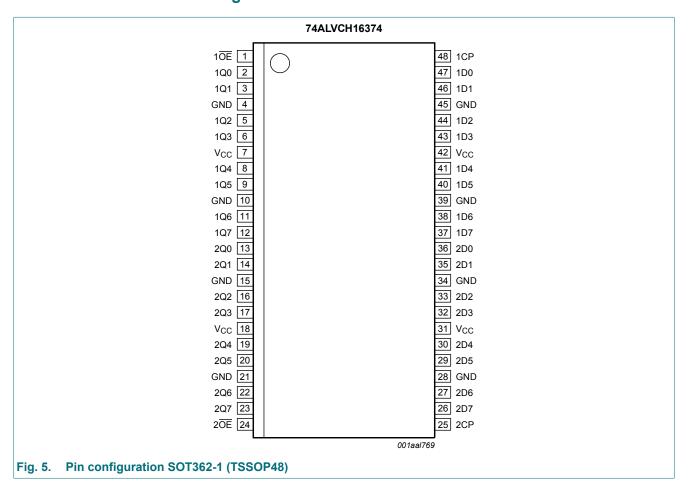






5. Pinning information

5.1. Pinning



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5.2. Pin description

Table 2. Pin description

Symbol	Pin	Description
1 OE , 2 OE	1, 24	output enable input (active LOW)
1Q0, 1Q1, 1Q2, 1Q3, 1Q4, 1Q5, 1Q6, 1Q7	2, 3, 5, 6, 8, 9, 11, 12	3-state flip-flop outputs
2Q0, 2Q1, 2Q2, 2Q3, 2Q4, 2Q5, 2Q6, 2Q7	13, 14, 16, 17, 19, 20, 22, 23	3-state flip-flop outputs
GND	4, 10, 15, 21, 28, 34, 39, 45	ground (0 V)
V _{CC}	7, 18, 31, 42	positive supply voltage
1D0, 1D1, 1D2, 1D3, 1D4, 1D5, 1D6, 1D7	47, 46, 44, 43, 41, 40, 38, 37	data inputs
2D0, 2D1, 2D2, 2D3, 2D4, 2D5, 2D6, 2D7	36, 35, 33, 32, 30, 29, 27, 26	data inputs
1CP, 2CP	48, 25	clock input

6. Functional description

Table 3. Function table

H = HIGH voltage level; h = HIGH voltage level one set-up time prior to the LOW-to-HIGH clock transition;

L = LOW voltage level; I = LOW voltage level one set-up time prior to the LOW-to-HIGH clock transition;

Z = high-impedance OFF-state.

Inputs			Internal	Outputs Q0 to Q7	Operating mode
nOE	nCP	nDn	flip-flops		
L	1	I	L	L	load and read register
L	1	h	Н	Н	
Н	1	I	L	Z	load register and disable
Н	1	h	Н	Z	outputs

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
I _{IK}	input clamping current	V _I < 0 V	-50	-	mA
VI	input voltage	control inputs [1]	-0.5	+4.6	V
		data inputs [1]	-0.5	V _{CC} + 0.5	V
I _{OK}	output clamping current	$V_O > V_{CC}$ or $V_O < 0 V$	-	±50	mA
Vo	output voltage	[1]	-0.5	V _{CC} + 0.5	V
Io	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	$T_{amb} = -40 ^{\circ}\text{C to } +125 ^{\circ}\text{C};$ [2]	-	600	mW

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

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^{↑ =} LOW-to-HIGH clock transition;

^[2] Above 55 °C the value of P_{tot} derates linearly with 8 mW/K.

8. Recommended operating conditions

Table 5. Recommended operating conditions

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
V _{CC}	supply voltage	maximum speed performance				
		C _L = 30 pF	2.3	-	2.7	V
		C _L = 50 pF	3.0	-	3.6	V
		low voltage applications	1.2	-	3.6	V
VI	input voltage	data inputs	0	-	V _{CC}	V
		control inputs	0	-	5.5	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	0	-	20	ns/V
		V _{CC} = 3.0 V to 3.6 V	0	-	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	Min	Typ [1]	Max	Unit
T _{amb} = -	40 °C to +85 °C		'			
V _{IH}	HIGH-level input	V _{CC} = 1.2 V	V _{CC}	-	-	V
	voltage	V _{CC} = 1.8 V	0.7V _{CC}	0.9	-	V
		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	V _{CC} = 1.2 V	-	-	0	V
	voltage	V _{CC} = 1.8 V	-	0.9	0.2V _{CC}	V
		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	8.0	V
V _{OH}	HIGH-level output	V _I = V _{IH} or V _{IL}				
	voltage	I _O = -100 μA; V _{CC} = 1.8 V to 3.6 V	V _{CC} - 0.2	V _{CC}	-	V
		I_{O} = -6 mA; V_{CC} = 1.8 V	V _{CC} - 0.4	V _{CC} - 0.1	-	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} - 0.5	V _{CC} - 0.17	-	V
		I_{O} = -12 mA; V_{CC} = 2.7 V	V _{CC} - 0.5	V _{CC} - 0.14	-	V
		I_{O} = -18 mA; V_{CC} = 2.3 V	V _{CC} - 0.6	V _{CC} - 0.26	-	V
		I_{O} = -24 mA; V_{CC} = 3.0 V	V _{CC} - 1.0	V _{CC} - 0.28	-	V
V _{OL}	LOW-level output	$V_{I} = V_{IH}$ or V_{IL}				
	voltage	I_O = 100 μ A; V_{CC} = 1.8 V to 3.6 V	-	0	0.20	V
		I _O = 6 mA; V _{CC} = 1.8 V	-	0.09	0.30	V
		I _O = 6 mA; V _{CC} = 2.3 V	-	0.07	0.20	V
		I _O = 12 mA; V _{CC} = 2.3 V	-	0.15	0.40	V
		I _O = 12 mA; V _{CC} = 2.7 V	-	0.14	0.40	V
		I _O = 18 mA; V _{CC} = 2.3 V	-	0.23	0.60	V
		I _O = 24 mA; V _{CC} = 3.0 V	-	0.27	0.55	V

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Symbol	Parameter	Conditions		Min	Typ [1]	Max	Unit
I _I	input leakage	V _{CC} = 1.8 V to 3.6 V					
	current	control input; V _I = 5.5 V or GND		-	0.1	5	μΑ
		data input; V _I = V _{CC} or GND		-	0.1	5	μΑ
l _{OZ}	OFF-state output	$V_I = V_{IH}$ or V_{IL} ; $V_O = V_{CC}$ or GND					
	current	V _{CC} = 1.8 V to 2.7 V		-	0.1	5	μΑ
		V _{CC} = 2.7 V to 3.6 V		-	0.1	10	μΑ
I _{LIZ}	OFF-state input	V _I = V _{CC} or GND					
	leakage current	V _{CC} = 1.8 V to 2.7 V		-	0.1	10	μΑ
		V _{CC} = 3.6 V		-	0.1	15	μΑ
I _{CC}	supply current	$V_I = V_{CC}$ or GND; $I_O = 0$ A;					
		V _{CC} = 1.8 V to 2.7 V		-	0.1	20	μΑ
		V _{CC} = 2.7 V to 3.6 V		-	0.2	40	μA
ΔI_{CC}	additional supply	$V_I = V_{CC} - 0.6 \text{ V}; I_O = 0 \text{ A}; V_{CC} = 2.7 \text{ V to } 3.6 \text{ V}$					
	current	per control input		-	5	500	μA
		per data I/O input		-	150	750	μΑ
I _{BHL}	bus hold LOW	V _{CC} = 2.3 V; V _I = 0.7 V	[2]	45	-	-	μΑ
	current	V _{CC} = 3.0 V; V _I = 0.8 V	[2]	75	150	-	μΑ
I _{BHH}	bus hold HIGH	V _{CC} = 2.3 V; V _I = 1.7 V	[2]	-45	-	-	μA
	current	V _{CC} = 3.0 V; V _I = 2.0 V	[2]	-75	-175	-	μA
I _{BHLO}	bus hold LOW	V _{CC} = 2.7 V	[2]	300	-	-	μΑ
	overdrive current	V _{CC} = 3.6 V	[2]	450	-	-	μΑ
I _{BHHO}	bus hold HIGH	V _{CC} = 2.7 V	[2]	-300	-	-	μA
	overdrive current	V _{CC} = 3.6 V	[2]	-450	-	-	μA
Cı	input capacitance			-	5.0	-	pF

All typical values are measured at T_{amb} = 25 °C. Valid for data inputs of bus hold parts only.

10. Dynamic characteristics

Table 7. Dynamic characteristics

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

Symbol	Parameter	Conditions	Min	Typ [1]	Max	Unit
T _{amb} = -4	40 °C to +85 °C					
f _{max}	maximum frequency	see Fig. 6				
		V _{CC} = 1.8 V	125	250	-	MHz
		V _{CC} = 2.3 V to 2.7 V	150	300	-	MHz
		V _{CC} = 2.7 V	150	300	-	MHz
		V _{CC} = 3.0 V to 3.6 V	200	350	-	MHz
t _{pd}	propagation delay	nCP to nQn; see Fig. 6 [2]				
		V _{CC} = 1.2 V	-	7.7	-	ns
		V _{CC} = 1.8 V	1.5	3.6	6.5	ns
		V _{CC} = 2.3 V to 2.7 V	1.0	2.3	4.3	ns
		V _{CC} = 2.7 V	1.0	2.3	3.8	ns
		V _{CC} = 3.0 V to 3.6 V	1.0	2.4	3.4	ns

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Symbol	Parameter	Conditions	Min	Typ [1]	Max	Unit
t _{en}	enable time	nOE to nQn; see Fig. 7 [2]				
		V _{CC} = 1.2 V	-	8.7	-	ns
		V _{CC} = 1.8 V	1.5	4.0	7.2	ns
		V _{CC} = 2.3 V to 2.7 V	1.0	2.6	4.8	ns
		V _{CC} = 2.7 V	1.0	2.9	4.8	ns
		V _{CC} = 3.0 V to 3.6 V	1.0	2.3	4.0	ns
t _{dis}	disable time	nOE to nQn; see Fig. 7 [2]				
		V _{CC} = 1.2 V	-	6.2	-	ns
		V _{CC} = 1.8 V	1.5	3.1	5.4	ns
		V _{CC} = 2.3 V to 2.7 V	1.0	2.1	4.0	ns
		V _{CC} = 2.7 V	1.0	2.9	4.5	ns
		V _{CC} = 3.0 V to 3.6 V	1.0	2.6	4.1	ns
t _W	pulse width	nCP HIGH or LOW; see Fig. 6				
		V _{CC} = 1.8 V	4.0	2.0	-	ns
		V _{CC} = 2.3 V to 2.7 V	3.0	1.6	-	ns
		V _{CC} = 2.7 V	3.0	1.6	-	ns
		V _{CC} = 3.0 V to 3.6 V	2.5	1.4	-	ns
t _{su}	set-up time	nDn to nCP; see Fig. 8				
		V _{CC} = 1.8 V	1.5	0.2	-	ns
		V _{CC} = 2.3 V to 2.7 V	1.2	0.2	-	ns
		V _{CC} = 2.7 V	1.5	0.4	-	ns
		V _{CC} = 3.0 V to 3.6 V	1.2	0.2	-	ns
t _h	hold time	nDn to nCP; see Fig. 8				
		V _{CC} = 1.8 V	0.6	-0.2	-	ns
		V _{CC} = 2.3 V to 2.7 V	0.8	-0.1	-	ns
		V _{CC} = 2.7 V	0.6	-0.2	-	ns
		V _{CC} = 3.0 V to 3.6 V	8.0	0.0	-	ns
C _{PD}	power dissipation	per flip-flop; $V_I = GND$ to V_{CC} [3]				
	capacitance	outputs enabled	-	16	-	pF
		outputs disabled	-	10	-	pF

[1] All 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} .

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

 t_{dis} is the same as t_{PLZ} and t_{PHZ} . [3] C_{PD} is used to determine the dynamic power dissipation (P_D in μW).

 $P_D = C_{PD} \times V_{CC}^2 \times f_i \times N + \Sigma (C_L \times V_{CC}^2 \times f_o)$ where:

 f_i = input frequency in MHz;

f_o = output frequency in MHz;

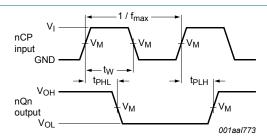
C_L = output load capacitance in pF;

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.

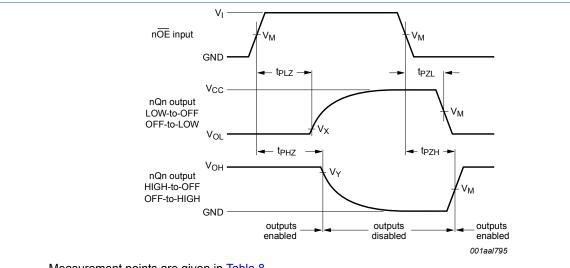
10.1. Waveforms and test circuit



Measurement points are given in Table 8.

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

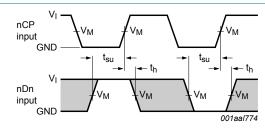
Propagation delay, clock input (nCP) to data output (nQn), and pulse width Fig. 6.



Measurement points are given in Table 8.

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

3-state enable and disable times Fig. 7.



Measurement points are given in Table 8.

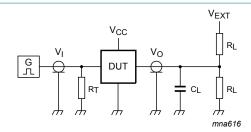
The shaded areas indicate when the input is permitted to change for predictable output performance.

Fig. 8. Data setup and hold times for input (nDn) to input (nCP)

Table 8. Measurement points

Supply voltage	Input		Output		
V _{CC}	V _I	V _M	V _M	V _X	V _Y
2.3 V to 2.7 V and < 2.3 V	V _{CC}	0.5 × V _{CC}	0.5 × 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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Test data is given in Table 9.

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 output impedance Z_0 of the pulse generator.

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

Fig. 9. Test circuit for measuring switching times

Table 9. Test data

Supply voltage	Input		Load		V _{EXT}		
V _{CC}	VI	t _r , t _f	CL	R_L	t _{PLH} , t _{PHL}	t_{PLZ} , t_{PZL}	t _{PHZ} , t _{PZH}
2.3 V to 2.7 V and < 2.3 V	V _{CC}	≤ 2.0 ns	30 pF	500 Ω	open	2 × V _{CC}	GND
2.7 V	2.7 V	2.5 ns	50 pF	500 Ω	open	2 × V _{CC}	GND
3.0 V to 3.6 V	2.7 V	2.5 ns	50 pF	500 Ω	open	2 × V _{CC}	GND

11. Package outline

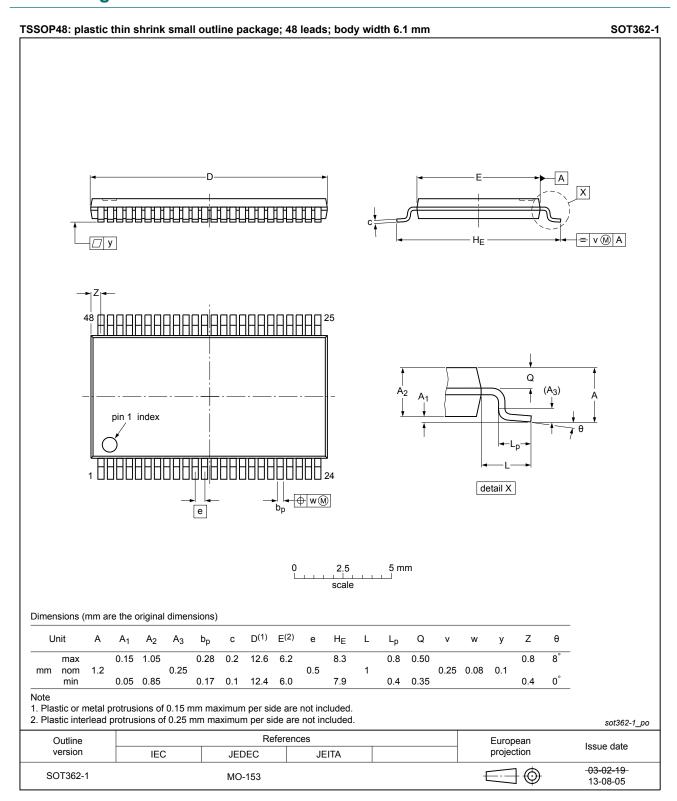


Fig. 10. Package outline SOT362-1 (TSSOP48)

12. Abbreviations

Table 10. Abbreviations

Acronym	Description	
CMOS	mplementary Metal-Oxide Semiconductor	
DUT	Device Under Test	
TTL	Transistor-Transistor Logic	

13. Revision history

Table 11. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
74ALVCH16374 v.6.1	20190307	Product data sheet	-	74ALVCH16374 v.5
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. Type number 74ALVCH16374DL (SOT370-1) removed. Removed typo in Table 1. 			
74ALVCH16374 v.5	20120709	Product data sheet	-	74ALVCH16374 v.4
Modifications:	<u>Table 8</u> corrected (errata).			
74ALVCH16374 v.4	20111117	Product data sheet	-	74ALVCH16374 v.3
Modifications:	Legal pages updated.			
74ALVCH16374 v.3	20100427	Product data sheet	-	74ALVCH16374 v.2
74ALVCH16374 v.2	19980618	Product specification	-	74ALVCH16374 v.1

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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