Product data sheet

#### **General description** 1

The 74ALVC16835A is a 18-bit registered driver. Data flow is controlled by active low output enable ( $\overline{OE}$ ), active low latch enable ( $\overline{LE}$ ) and clock inputs (CP).

When LE is LOW, the A to Y data flow is transparent. When LE is HIGH and CP is held at LOW or HIGH, the data is latched; on the LOW to HIGH transient of CP the A-data is stored in the latch/flip-flop.

When  $\overline{OE}$  is LOW the outputs are active. When  $\overline{OE}$  is HIGH, the outputs go to the high impedance OFF-state. Operation of the OE input does not affect the state of the latch/flip-flop.

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

#### Features and benefits 2

- Wide supply voltage range from 1.2 V to 3.6 V
- CMOS low-power consumption
- Direct interface with TTL levels
- Current drive ± 24 mA at 3.0 V
- MULTIBYTE flow-through standard pin-out architecture
- Low inductance multiple V<sub>CC</sub> and GND pins for minimum noise and ground bounce
- Output drive capability 50 Ω transmission lines at 85°C
- · Input diodes to accommodate strong drivers
- · 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

#### **Ordering information** 3

#### Table 1. Ordering information

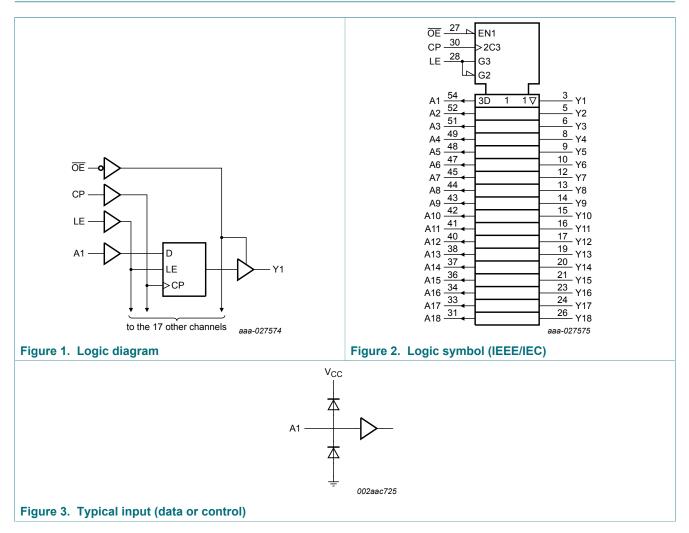
Type number	Package					
	Temperature range	Name	Description	Version		
74ALVC16835ADGG	−40 °C to + 85 °C	TSSOP56	plastic thin shrink small outline package; 56 leads; body width 6.1 mm	SOT364-1		

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## 74ALVC16835A

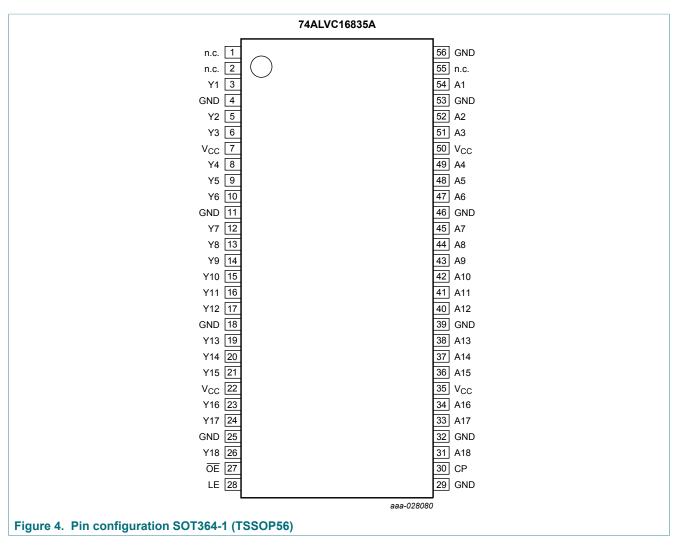
18-bit registered driver; 3-state

### 4 Functional diagram



## 5 Pinning information

#### 5.1 Pinning



### 5.2 Pin description

Symbol	Pin	Description
A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16, A17, A18	54, 52, 51, 49, 48, 47, 45, 44, 43, 42, 41, 40, 38, 37, 36, 34, 33, 31	data inputs
Y1, Y2, Y3, Y4, Y5, Y6, Y7, Y8, Y9, Y10, Y11, Y12, Y13, Y14, Y15, Y16, Y17, Y18	3, 5, 6, 8, 9, 10, 12, 13, 14, 15, 16, 17, 19, 20, 21, 23, 24, 26	data outputs
n.c.	1, 2, 55	not connected
LE	28	latch enable input
OE	27	output enable input (active LOW)
СР	30	clock input
GND	4, 11, 18, 25, 32, 39, 46, 53, 56	ground (0 V)
V <sub>CC</sub>	7, 22, 35, 50	supply voltage

#### **Functional description** 6

#### Table 3. Function table <sup>[1]</sup>

Input	Output			
OE	LE	СР	An	Yn
Н	Х	Х	Х	Z
L	Н	Х	L	L
L	Н	Х	Н	Н
L	L	1	L	L
L	L	1	Н	Н
L	L	Н	X	Yn <sup>[2]</sup>
L	L	L	Х	Yn <sup>[3]</sup>

[1] H = HIGH voltage level;

L = LOW voltage level;

X = don't care;

Z = high-impedance OFF-state;

↑ = LOW-to-HIGH clock transition.

[2] Yn = Output level before the indicated steady-state input conditions were established, provided that CP is high before LE goes low.
 [3] Yn = Output level before the indicated steady-state input conditions were established.

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#### **Limiting values** 7

#### 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 <sub>CC</sub>	supply voltage			-0.5	+4.6	V
VI	input voltage	For control pins	[1]	-0.5	+4.6	V
		For data inputs	[1]	-0.5	V <sub>CC</sub> + 0.5	V
Vo	output voltage		[1]	-0.5	V <sub>CC</sub> + 0.5	V
I <sub>IK</sub>	input clamping current	V <sub>I</sub> < 0 V		-50	-	mA
I <sub>OK</sub>	output clamping current	$V_{\rm O}$ > $V_{\rm CC}$ or $V_{\rm O}$ < 0 V		-	±50	mA
I <sub>O</sub>	output current	$V_{O} = 0 V$ to $V_{CC}$		-	±50	mA
I <sub>CC</sub>	supply current			-	+100	mA
I <sub>GND</sub>	ground current			-100	-	mA
T <sub>stg</sub>	storage temperature			-65	+150	°C
P <sub>tot</sub>	total power dissipation		[2]	-	600	mW

The input and output voltage ratings may be exceeded if the input and output current ratings are observed.
 For TSSOP56 package: P<sub>tot</sub> derates linearly with 8 mW/K above 55 °C.

#### **Recommended operating conditions** 8

#### Table 5. Recommended operating conditions

Symbol	Parameter	Conditions	Min	Тур	Мах	Unit
V <sub>CC</sub>	supply voltage	2.5 V range for maximum speed performance at 30 pF output load	2.3	-	2.7	V
		3.3 V range for maximum speed performance at 50 pF output load	3.0	-	3.6	V
		for low-voltage applications	1.2	-	3.6	V
VI	input voltage		0	-	V <sub>CC</sub>	V
Vo	output voltage		0	-	V <sub>CC</sub>	V
T <sub>amb</sub>	ambient temperature	operating in free-air	-40	-	+85	°C
Δt/ΔV	input transition	V <sub>CC</sub> = 2.3 V to 3.0 V	0	-	20	ns/V
	rise and fall rate	V <sub>CC</sub> = 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 <sup>[1]</sup>	Мах	Unit
V <sub>IH</sub>	HIGH-level input	$V_{CC}$ = 2.3 V to 2.7 V	1.7	1.2	-	V
voltage		V <sub>CC</sub> = 2.7 V to 3.6 V	2.0	1.5	-	V
V <sub>IL</sub>	LOW-level input	V <sub>CC</sub> = 2.3 V to 2.7 V	-	1.2	0.7	V
	voltage	V <sub>CC</sub> = 2.7 V to 3.6 V	-	1.5	0.8	V
V <sub>OH</sub>	HIGH-level output	$V_{I} = V_{IH} \text{ or } V_{IL}$				
	voltage	$V_{CC}$ = 2.3 V to 3.6 V; I <sub>O</sub> = -100 µA	V <sub>CC</sub> - 0.2	V <sub>CC</sub>	-	V
		V <sub>CC</sub> = 2.3 V; I <sub>O</sub> = -6 mA	V <sub>CC</sub> - 0.3	V <sub>CC</sub> - 0.08	-	V
		V <sub>CC</sub> = 2.3 V; I <sub>O</sub> = -12 mA	V <sub>CC</sub> - 0.6	V <sub>CC</sub> - 0.26	-	V
		V <sub>CC</sub> = 2.7 V; I <sub>O</sub> = -12 mA	V <sub>CC</sub> - 0.5	V <sub>CC</sub> - 0.14	-	V
		V <sub>CC</sub> = 3.0 V; I <sub>O</sub> = -12 mA	V <sub>CC</sub> - 0.6	V <sub>CC</sub> - 0.09	-	V
		V <sub>CC</sub> = 3.0 V; I <sub>O</sub> = -24 mA	V <sub>CC</sub> - 1.0	V <sub>CC</sub> - 0.28	-	V
V <sub>OL</sub>	LOW-level output voltage	$V_{I} = V_{IH} \text{ or } V_{IL}$				
		$V_{CC}$ = 2.3 V to 3.6 V; I <sub>O</sub> = 100 µA	-	GND	0.20	V
		V <sub>CC</sub> = 2.3 V; I <sub>O</sub> = 6 mA	-	0.07	0.40	V
		V <sub>CC</sub> = 2.3 V; I <sub>O</sub> = 12 mA	-	0.15	0.70	V
		V <sub>CC</sub> = 2.7 V; I <sub>O</sub> = 12 mA	-	0.14	0.40	V
		V <sub>CC</sub> = 3.0 V; I <sub>O</sub> = 24 mA	-	0.27	0.55	V
l	input leakage current	$V_{CC}$ = 2.3 V to 3.6 V; $V_{I}$ = $V_{CC}$ or GND	-	0.1	5	μA
I <sub>OZ</sub>	OFF-state output current	$V_{CC}$ = 2.3 V to 3.6 V; V <sub>I</sub> = V <sub>IH</sub> or V <sub>IL</sub> ; V <sub>O</sub> = V <sub>CC</sub> or GND	-	0.1	10	μA
I <sub>CC</sub>	supply current	$V_{CC}$ = 2.3 V to 3.6 V; V <sub>I</sub> = V <sub>CC</sub> or GND; I <sub>O</sub> = 0 A	-	0.2	40	μA
ΔI <sub>CC</sub>	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
Ci	input capacitance		-	4.0	-	pF
Co	output capacitance		-	8.0	-	pF

[1] Typical values are measured at  $T_{amb}$  = 25 °C

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## **10** Dynamic characteristics

#### Table 7. Dynamic characteristics

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

Symbol	Parameter	Conditions		Min	Тур <sup>[1]</sup>	Max	Unit
t <sub>pd</sub>	propagation delay	An to Yn; Figure 5	[2]				
		$V_{CC} = 2.3 V \text{ to } 2.7 V$		1.0	2.4	4.2	ns
		V <sub>CC</sub> = 2.7 V		1.3	2.7	4.0	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V		1.0	2.3	3.6	ns
		LE to Yn; Figure 6	[2]				
		V <sub>CC</sub> = 2.3 V to 2.7 V		1.3	2.8	4.5	ns
		V <sub>CC</sub> = 2.7 V		1.3	2.8	4.5	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V		1.3	2.6	4.2	ns
		CP to Yn; Figure 8	[2]				
		V <sub>CC</sub> = 2.3 V to 2.7 V		1.4	2.8	5.0	ns
		V <sub>CC</sub> = 2.7 V		1.3	2.7	4.5	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V		1.3	2.5	4.2	ns
t <sub>en</sub> e	enable time	OE to Yn; Figure 10	[3]				
		V <sub>CC</sub> = 2.3 V to 2.7 V		1.4	2.2	4.0	ns
		V <sub>CC</sub> = 2.7 V		1.4	3.0	4.5	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V		1.1	2.3	4.4	ns
t <sub>dis</sub>	disable time	OE to Yn; Figure 10	[4]				
		V <sub>CC</sub> = 2.3 V to 2.7 V		1.4	2.0	4.5	ns
		V <sub>CC</sub> = 2.7 V		1.4	3.1	4.3	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V		1.3	2.8	4.3	ns
t <sub>w</sub>	pulse width	CP; HIGH or LOW; $V_{CC}$ = 2.3 V to 3.6 V; Figure 8		2.0	-	-	ns
		LE; HIGH; V <sub>CC</sub> = 2.3 V to 3.6 V; <u>Figure 6</u>		2.0	-	-	ns
t <sub>su</sub>	set-up time	An to CP; $V_{CC}$ = 2.3 V to 3.6 V; Figure 9		1.0	-	-	ns
		An to LE; $V_{CC}$ = 2.3 V to 3.6 V; Figure 7		1.5	-	-	ns
t <sub>h</sub>	hold time	An to CP; Figure 9					
		V <sub>CC</sub> = 2.3 V to 2.7 V		0.6	0.2	-	ns
		V <sub>CC</sub> = 2.7 V		0.6	0.3	-	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V		0.9	0.3	-	ns
		An to LE; Figure 7					
		$V_{CC}$ = 2.3 V to 2.7 V		1.4	0.4	-	ns
		V <sub>CC</sub> = 2.7 V		1.7	0.4	-	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V		1.4	0.3	-	ns

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#### 18-bit registered driver; 3-state

Symbol	Parameter	Conditions	Min	Тур <sup>[1]</sup>	Max	Unit
f <sub>max</sub>	maximum	CP; Figure 8				
	frequency	V <sub>CC</sub> = 2.3 V to 2.7 V	150	300	-	MHz
		V <sub>CC</sub> = 2.7 V	200	350	-	MHz
		V <sub>CC</sub> = 3.0 V to 3.6 V	150	300	-	MHz
C <sub>PD</sub>	power dissipation capacitance	per buffer; $V_1$ = GND to $V_{CC}$ <sup>[5]</sup>				
		transparent mode; output enabled	-	13	-	pF
		transparent mode; output disabled	-	3	-	pF
		clocked mode; output enabled	-	22	-	pF
		clocked mode; output disabled	-	15	-	pF

[1] Typical values are measured at  $T_{amb}$  = 25  $^\circ\text{C}$ 

Typical values for  $V_{CC}$  = 2.3 V to 2.7 V are measured at  $V_{CC}$  = 2.5 V

Typical values for V<sub>CC</sub> = 3.0 V to 3.6 V are measured at V<sub>CC</sub> = 3.3 V

 $t_{\text{pd}}$  is the same as  $t_{\text{PHL}}$  and  $t_{\text{PLH}}$ [2]

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

 $\begin{array}{l} \label{eq:product} \end{tabular} \en$ 

 $f_0$  = output frequency in MHz;

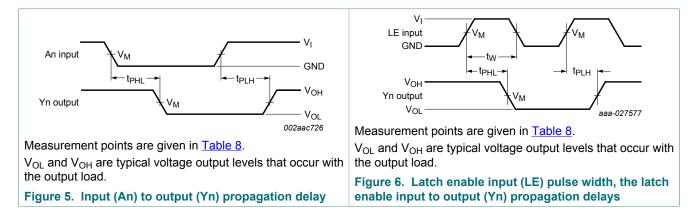
 $C_L$  = output load capacitance in pF;

V<sub>CC</sub> = supply voltage in V;

N = number of inputs switching;

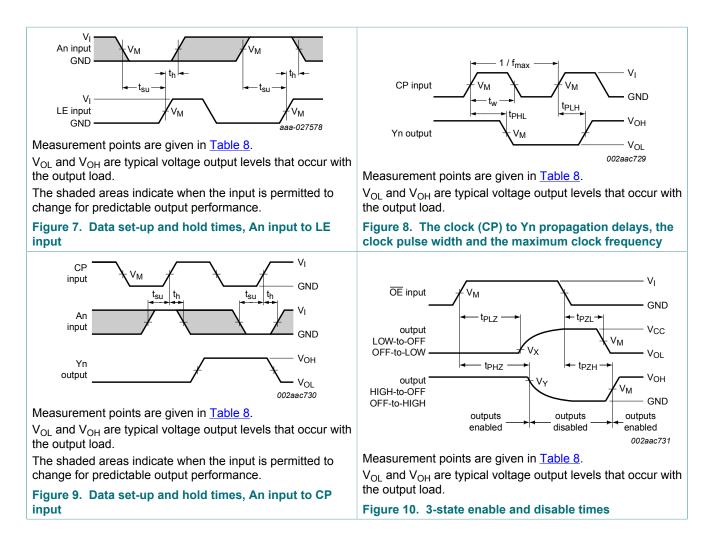
 $\sum (C_L \times V_{CC}^2 \times f_0) = \text{sum of outputs.}$ 

#### 10.1 Waveforms and test circuit



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#### 18-bit registered driver; 3-state



#### Table 8. Measurement points

Supply voltage	Input	nput Output				
V <sub>cc</sub>	VI	V <sub>M</sub>	V <sub>M</sub>	V <sub>X</sub>	V <sub>Y</sub>	
≤ 2.3 V	V <sub>CC</sub>	0.5 x V <sub>CC</sub>	0.5 x V <sub>CC</sub>	V <sub>OL</sub> + 0.15 V	V <sub>OH</sub> - 0.15 V	
2.3 V to 2.7 V	V <sub>CC</sub>	0.5 x V <sub>CC</sub>	0.5 x V <sub>CC</sub>	V <sub>OL</sub> + 0.15 V	V <sub>OH</sub> - 0.15 V	
2.7 V	2.7 V	1.5 V	1.5 V	V <sub>OL</sub> + 0.3 V	V <sub>OH</sub> - 0.3 V	
3.0 V to 3.6 V	2.7 V	1.5 V	1.5 V	V <sub>OL</sub> + 0.3 V	V <sub>OH</sub> - 0.3 V	

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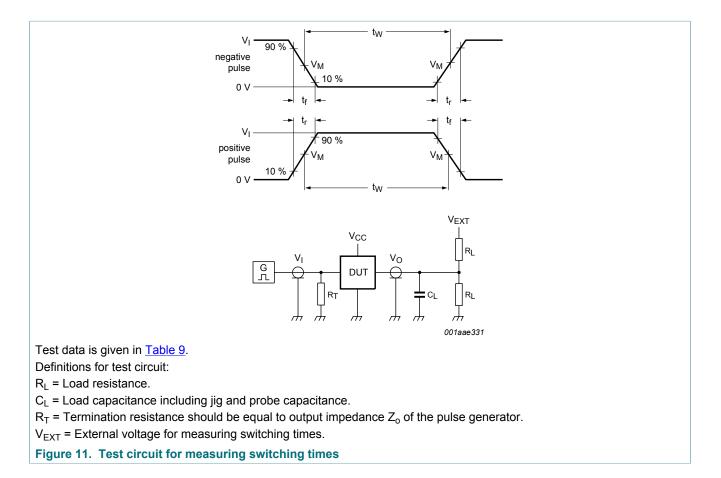


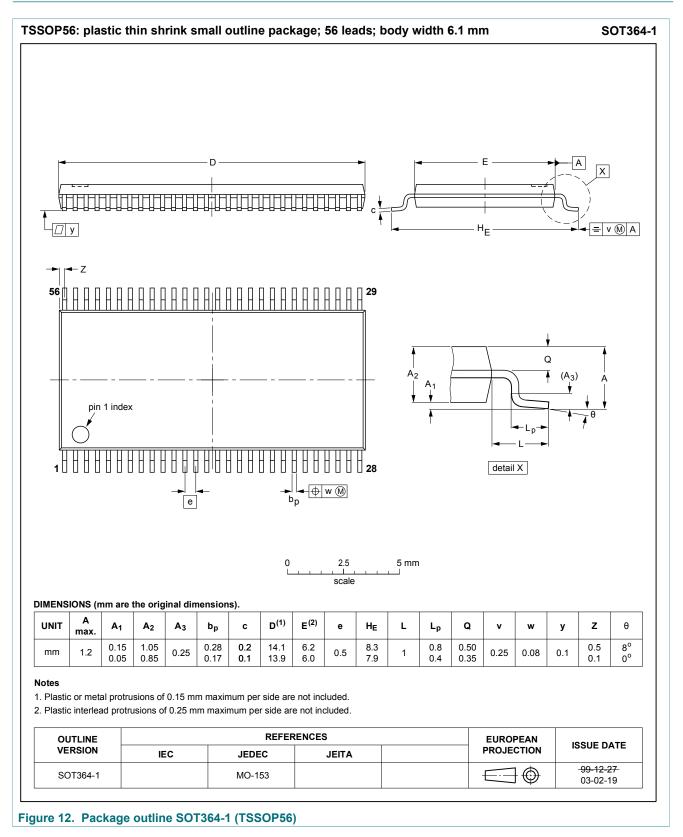
Table 9.	Test data	

Supply voltage	Input		Load V <sub>EXT</sub>				
V <sub>cc</sub>	VI	t <sub>r</sub> , t <sub>f</sub>	CL	RL	t <sub>PLH</sub> , t <sub>PHL</sub>	$t_{PLZ}, t_{PZL}$	t <sub>PHZ</sub> , t <sub>PZH</sub>
≤ 2.3 V	V <sub>CC</sub>	≤ 2.0 ns	30 pF	500 Ω	open	$2 \times V_{CC}$	GND
2.3 V to 2.7 V	V <sub>CC</sub>	≤ 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

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### 11 Package outline



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### **12 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				

## **13 Revision history**

Table 11. Revision history							
Document ID	Release date	Data sheet status	Change notice	Supersedes			
74ALVC16835A v.7	20180119	Product data sheet	-	74ALVC16835A v.6			
Modifications:	<ul> <li>The format of this data sheet has been redesigned to comply with the identity guidelines of Nexperia.</li> <li>Legal texts have been adapted to the new company name where appropriate.</li> </ul>						
74ALVC16835A v.6	20000314	Product specification	-	74ALVC16835 v.5			
74ALVC16835 v.5	19990318	Product specification	-	74ALVC16835 v.4			
74ALVC16835 v.4	19980727	Product specification	-	74ALVC16835 v.3			
74ALVC16835 v.3	19980727	Product specification	-	74ALVC16835 v.2			
74ALVC16835 v.2	19980727	Product specification	-	74ALVC16835 v.1			

### 14 Legal information

#### 14.1 Data sheet status

Document status <sup>[1][2]</sup>	Product status <sup>[3]</sup>	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. [1]

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

[2] [3] The product status of device(s) described in this document may have changed since this document was published and may differ in case of multiple devices. The latest product status information is available on the Internet at URL http://www.nexperia.com.

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## 74ALVC16835A

#### 18-bit registered driver; 3-state

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