## 74AVC16835A

# 18-bit registered driver with Dynamic Controlled Outputs; 3-state

Rev. 6 — 24 September 2018

Product data sheet

## 1. General description

The 74AVC16835A is an 18-bit universal bus driver. Data flow is controlled by output enable  $(\overline{OE})$ , latch enable (LE) and clock inputs (CP).

This product is designed to have an extremely fast propagation delay and a minimum amount of power consumption.

To ensure the high-impedance state during power up or power down,  $\overline{\text{OE}}$  should be tied to  $V_{CC}$  through a pullup resistor (Live Insertion).

A Dynamic Controlled Output (DCO) circuitry is implemented to support termination line drive during transient. See <a href="Fig. 5">Fig. 5</a> for typical curves.

#### 2. Features and benefits

- Wide supply voltage range from 1.2 V to 3.6 V
- · Complies with JEDEC standards:
  - JESD8-7 (1.2 V to 1.95 V)
  - JESD8-5 (1.8 V to 2.7 V)
  - JESD8-1A (2.7 V to 3.6 V)
- CMOS low power consumption
- Input/output tolerant up to 3.6 V
- Dynamic Controlled Output (DCO) circuit dynamically changes output impedance, resulting in noise reduction without speed degradation
- · Low inductance multiple V<sub>CC</sub> and GND pins to minimize noise and ground bounce
- Power off disables 74AVC16835A outputs, permitting Live Insertion
- Integrated input diodes to minimize input overshoot and undershoot

## 3. Ordering information

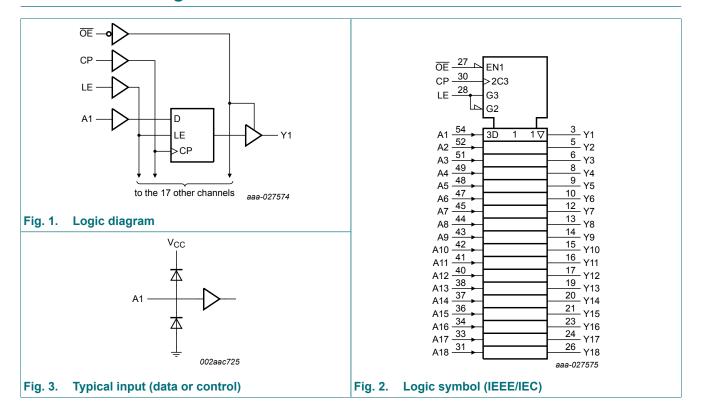
#### **Table 1. Ordering information**

Type number	Package									
	Temperature range	Name	Description	Version						
74AVC16835ADGG	-40 °C to + 85 °C	TSSOP56	plastic thin shrink small outline package; 56 leads; body width 6.1 mm	SOT364-1						



#### 18-bit registered driver with Dynamic Controlled Outputs; 3-state

## 4. Functional diagram

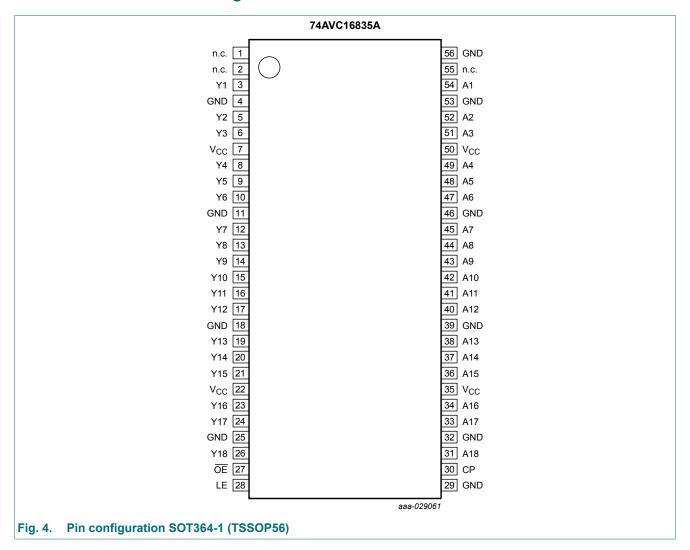


**Product data sheet** 

18-bit registered driver with Dynamic Controlled Outputs; 3-state

## 5. Pinning information

#### 5.1. Pinning



#### 18-bit registered driver with Dynamic Controlled Outputs; 3-state

## 5.2. Pin description

Table 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
ŌE	27	output enable input (active LOW)
CP	30	clock input
GND	4, 11, 18, 25, 29, 32, 39, 46, 53, 56	ground (0 V)
Vcc	7, 22, 35, 50	supply voltage

## 6. Functional description

#### **Table 3. Function selection**

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

Inputs				Outputs
OE	LE	СР	An	Yn
Н	X	Х	Х	Z
L	Н	Х	L	L
L	Н	Х	Н	Н
L	L	1	L	L
L	L	<b>↑</b>	Н	Н
L	L	Н	Х	Y <sub>0</sub> [1]
L	L	L	X	Y <sub>0</sub> [2]

<sup>[1]</sup> Output level before the indicated steady-state input conditions were established, provided that CP is high before LE goes low.

<sup>[2]</sup> Output level before the indicated steady-state input conditions were established.

## 18-bit registered driver with Dynamic Controlled Outputs; 3-state

## 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 <sub>CC</sub>	supply voltage		-0.5	+4.6	V
I <sub>IK</sub>	input clamping current	V <sub>I</sub> < 0 V	-50	-	mA
VI	input voltage	[1]	-0.5	+4.6	V
I <sub>OK</sub>	output clamping current	V <sub>O</sub> > V <sub>CC</sub> or V <sub>O</sub> < 0 V	-	±50	mA
Vo	output voltage	output HIGH or LOW [1]	-0.5	V <sub>CC</sub> + 0.5	V
		output 3-state [1]	-0.5	+4.6	V
I <sub>O</sub>	output current	$V_O = 0 V \text{ to } V_{CC}$	-	±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	$T_{amb} = -40  ^{\circ}\text{C} \text{ to } +85  ^{\circ}\text{C}$ [2]	-	600	mW

<sup>[1]</sup> 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	Тур	Max	Unit
$V_{CC}$	supply voltage	for low-voltage applications	1.2	-	3.6	V
		according to JEDEC Low Voltage	1.65	-	1.95	V
		Standards	2.3	-	2.7	V
			3.0	-	3.6	V
VI	input voltage		0	-	3.6	V
Vo	output voltage	output HIGH or LOW	0	-	V <sub>CC</sub>	V
		output 3-state	0	-	3.6	V
T <sub>amb</sub>	ambient temperature	in free air	-40	-	+85	°C
Δt/ΔV	input transition rise and fall rate	V <sub>CC</sub> = 1.65 V to 2.3 V	0	-	30	ns/V
		V <sub>CC</sub> = 2.3 V to 3.0 V	0	-	20	ns/V
		V <sub>CC</sub> = 3.0 V to 3.6 V	0	-	10	ns/V

<sup>[2]</sup> Above 55 °C the value of Ptot derates linearly with 8 mW/K.

#### 18-bit registered driver with Dynamic Controlled Outputs; 3-state

## 9. Static characteristics

**Table 6. Static characteristics** 

At recommended operating conditions;  $T_{amb} = -40$  °C to +85 °C; Voltages are referenced to GND (ground = 0 V).

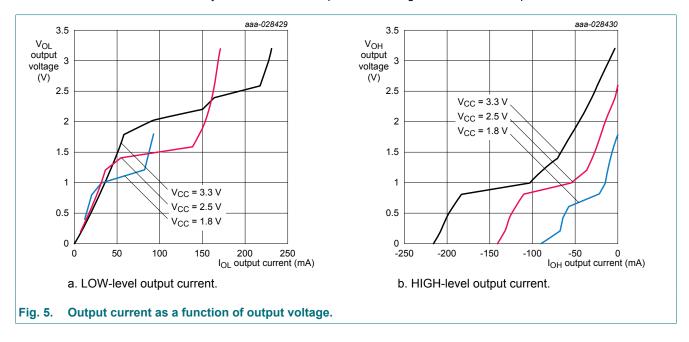
Symbol	Parameter	Conditions	Min	Typ[1]	Max	Unit
V <sub>IH</sub>	HIGH-level input	V <sub>CC</sub> = 1.2 V	V <sub>CC</sub>	-	-	V
	voltage	V <sub>CC</sub> = 1.65 V to 1.95 V	0.65 × V <sub>CC</sub>	0.9	-	V
		V <sub>CC</sub> = 2.3 V to 2.7 V	1.7	1.2	-	V
		V <sub>CC</sub> = 3.0 V to 3.6 V	2.0	1.5	-	V
V <sub>IL</sub>	LOW-level input	V <sub>CC</sub> = 1.2 V	-	-	GND	V
	voltage	V <sub>CC</sub> = 1.65 V to 1.95 V	-	0.9	0.35 × V <sub>CC</sub>	V
		V <sub>CC</sub> = 2.3 V to 2.7 V	-	1.2	0.7	V
		V <sub>CC</sub> = 3.0 V to 3.6 V	-	1.5	0.8	V
V <sub>OH</sub>	HIGH-level output	$V_I = V_{IH}$ or $V_{IL}$				
	voltage	$I_{O}$ = -100 $\mu$ A; $V_{CC}$ = 1.65 V to 3.6 V	V <sub>CC</sub> - 0.20	V <sub>CC</sub>	-	V
		I <sub>O</sub> = -4 mA; V <sub>CC</sub> = 1.65 V	V <sub>CC</sub> - 0.45	V <sub>CC</sub> - 0.10	-	V
		I <sub>O</sub> = -8 mA; V <sub>CC</sub> = 2.3 V	V <sub>CC</sub> - 0.55	V <sub>CC</sub> - 0.28	-	V
		$I_{O}$ = -12 mA; $V_{CC}$ = 3.0 V	V <sub>CC</sub> - 0.70	V <sub>CC</sub> - 0.32	-	V
V <sub>OL</sub>	LOW-level output	$V_I = V_{IH}$ or $V_{IL}$				
	voltage	I <sub>O</sub> = 100 μA; V <sub>CC</sub> = 1.65 V to 3.6 V	-	GND	0.20	V
		I <sub>O</sub> = 4 mA; V <sub>CC</sub> = 1.65 V	-	0.10	0.45	V
		I <sub>O</sub> = 8 mA; V <sub>CC</sub> = 2.3 V	-	0.26	0.55	V
		I <sub>O</sub> = 12 mA; V <sub>CC</sub> = 3.0 V	-	0.36	0.70	V
I <sub>I</sub>	input leakage current	$V_I = V_{CC}$ or GND; $V_{CC} = 1.65 \text{ V}$ to 3.6 V	-	0.1	2.5	μΑ
I <sub>OFF</sub>	power-off leakage current	$V_1$ or $V_0 = 3.6 \text{ V}$ ; $V_{CC} = 0 \text{ V}$	-	0.1	±10	μΑ
I <sub>IHZ</sub> /I <sub>ILZ</sub>	power-off leakage current	$V_{CC}$ = 1.65 V to 3.6 V; $V_{I}$ = $V_{CC}$ or GND	-	0.1	12.5	μΑ
I <sub>OZ</sub>	OFF-state output	$V_I = V_{IH}$ or $V_{IL}$ ; $V_O = V_{CC}$ or GND				
	current	V <sub>CC</sub> = 1.65 V to 2.7 V	-	0.1	5	μΑ
		V <sub>CC</sub> = 3.0 V to 3.6 V	-	0.1	10	μA
I <sub>CC</sub>	supply current	$V_I = V_{CC}$ or GND; $I_O = 0$ A				
		V <sub>CC</sub> = 1.65 V to 2.7 V	-	0.1	20	μA
		V <sub>CC</sub> = 3.0 V to 3.6 V	-	0.2	40	μΑ
Cı	input capacitance		-	3.8	-	pF

<sup>[1]</sup> All typical values are measured at  $T_{amb}$  = 25 °C.

#### 18-bit registered driver with Dynamic Controlled Outputs; 3-state

#### 9.1. Dynamic Controlled Output graphs

A Dynamic Controlled Output (DCO) circuit is designed in. During the transition, it initially lowers the output impedance to effectively drive the load and, subsequently, raises the impedance to reduce noise. Fig. 5 show  $V_{OL}$  vs.  $I_{OL}$  and  $V_{OH}$  vs.  $I_{OH}$  curves to illustrate the output impedance and drive capability of the circuit. At the beginning of the signal transition, the DCO circuit provides a maximum dynamic drive that is equivalent to a high drive standard output device.



#### 18-bit registered driver with Dynamic Controlled Outputs; 3-state

## 10. Dynamic characteristics

**Table 7. Dynamic characteristics** 

Voltages are referenced to GND (ground = 0 V). For test circuit see Fig. 12.

Symbol	Parameter	Conditions		Min	Typ [1]	Max	Unit
t <sub>pd</sub>	propagation delay	An to Yn; see Fig. 6	[2]				
		V <sub>CC</sub> = 1.2 V		-	5.2	-	ns
		V <sub>CC</sub> = 1.4 V to 1.6 V		1.6	3.6	5.1	ns
		V <sub>CC</sub> = 1.65 V to 1.95 V		1.3	2.1	4.2	ns
		V <sub>CC</sub> = 2.3 V to 2.7 V		1.0	1.7	3.0	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V		0.9	1.5	2.5	ns
		LE to Yn; see Fig. 7	[2]				
		V <sub>CC</sub> = 1.2 V		-	4.2	-	ns
		V <sub>CC</sub> = 1.4 V to 1.6 V		1.6	2.8	4.6	ns
		V <sub>CC</sub> = 1.65 V to 1.95 V		1.3	2.2	4.0	ns
		V <sub>CC</sub> = 2.3 V to 2.7 V		1.1	1.9	3.5	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V		0.9	1.6	2.9	ns
		CP to Yn; see Fig. 9	[2]				
		V <sub>CC</sub> = 1.2 V		-	4.3	-	ns
		V <sub>CC</sub> = 1.4 V to 1.6 V		1.6	2.9	4.6	ns
		V <sub>CC</sub> = 1.65 V to 1.95 V		1.5	2.2	3.7	ns
		V <sub>CC</sub> = 2.3 V to 2.7 V		1.0	1.8	3.0	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V		8.0	1.7	2.7	ns
t <sub>en</sub>	enable time	OE to Yn; see Fig. 11	[2]				
		V <sub>CC</sub> = 1.2 V		-	6.3	-	ns
		V <sub>CC</sub> = 1.4 V to 1.6 V		2.5	4.4	7.6	ns
		V <sub>CC</sub> = 1.65 V to 1.95 V		2.2	3.1	5.8	ns
		V <sub>CC</sub> = 2.3 V to 2.7 V		1.5	2.5	4.5	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V		1.2	2.1	4.0	ns
t <sub>dis</sub>	disable time	OE to Yn; see Fig. 11	[2]				
		V <sub>CC</sub> = 1.2 V		-	5.5	-	ns
		V <sub>CC</sub> = 1.4 V to 1.6 V		2.2	4.1	7.6	ns
		V <sub>CC</sub> = 1.65 V to 1.95 V		2.0	3.1	5.6	ns
		V <sub>CC</sub> = 2.3 V to 2.7 V		1.2	2.2	4.5	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V		1.1	2.6	4.8	ns
t <sub>W</sub>	pulse width	CP HIGH or LOW; see Fig. 9.					
		V <sub>CC</sub> = 1.65 V to 1.95 V		2.0	-	-	ns
		V <sub>CC</sub> = 2.3 V to 2.7 V		1.2	-	-	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V		1.0	-	-	ns
		LE HIGH; see Fig. 7.					
		V <sub>CC</sub> = 1.65 V to 1.95 V		2.0	-	-	ns
		V <sub>CC</sub> = 2.3 V to 2.7 V		1.2	-	-	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V		1.0	-	-	ns

**Product data sheet** 

#### 18-bit registered driver with Dynamic Controlled Outputs; 3-state

Symbol	Parameter	Conditions	Min	Typ [1]	Max	Unit
t <sub>su</sub>	set-up time	An to CP; see Fig. 10				
		V <sub>CC</sub> = 1.2 V	-	0.0	-	ns
		V <sub>CC</sub> = 1.4 V to 1.6 V	0.2	0.0	-	ns
		V <sub>CC</sub> = 1.65 V to 1.95 V	0.0	-0.2	-	ns
		V <sub>CC</sub> = 2.3 V to 2.7 V	0.0	-0.2	-	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V	0.0	-0.3	-	ns
		An to LE; see Fig. 8				
		V <sub>CC</sub> = 1.2 V	-	1.5	-	ns
		V <sub>CC</sub> = 1.4 V to 1.6 V	1.6	0.9	-	ns
		V <sub>CC</sub> = 1.65 V to 1.95 V	1.1	0.6	-	ns
		V <sub>CC</sub> = 2.3 V to 2.7 V	0.7	0.3	-	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V	1.0	0.5	-	ns
t <sub>h</sub>	hold time	An to CP; see Fig. 10				
		V <sub>CC</sub> = 1.2 V	-	0.1	-	ns
		V <sub>CC</sub> = 1.4 V to 1.6 V	0.7	0.3	-	ns
		V <sub>CC</sub> = 1.65 V to 1.95 V	0.7	0.3	-	ns
		V <sub>CC</sub> = 2.3 V to 2.7 V	0.7	0.3	-	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V	1.3	0.6	-	ns
		An to LE; see Fig. 8				
		V <sub>CC</sub> = 1.2 V	-	-0.7	-	ns
		V <sub>CC</sub> = 1.4 V to 1.6 V	0.0	-0.3	-	ns
		V <sub>CC</sub> = 1.65 V to 1.95 V	0.2	-0.2	-	ns
		V <sub>CC</sub> = 2.3 V to 2.7 V	0.2	0.0	-	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V	0.3	0.8	-	ns
f <sub>max</sub>	maximum frequency	CP; see Fig. 9				
		V <sub>CC</sub> = 1.65 V to 1.95 V	250	-	-	MHz
		V <sub>CC</sub> = 2.3 V to 2.7 V	400	-	-	MHz
		V <sub>CC</sub> = 3.0 V to 3.6 V	500	-	-	MHz
C <sub>PD</sub>	power dissipation capacitance	per buffer; $V_I = GND$ to $V_{CC}$ [3]				
		outputs enabled	-	25	-	pF
		outputs disabled	-	6	-	pF

Typical values are measured at  $T_{amb}$  = 25 °C and  $V_{CC}$  = 1.5 V, 1.8 V, 2.5 V and 3.3 V respectively.

[2] t<sub>pd</sub> is the same as t<sub>PLH</sub> and t<sub>PHL</sub>.

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

 $t_{dis}$  is the same as  $t_{PLZ}$  and  $t_{PHZ}$ . [3]  $C_{PD}$  is used to determine the dynamic power dissipation ( $P_D$  in  $\mu$ W).  $P_D = C_{PD} \times V_{CC}^2 \times f_i \times N + \Sigma (C_L \times V_{CC}^2 \times f_0)$  where:

 $f_i$  = input frequency in MHz;

fo = output frequency in MHz

C<sub>L</sub> = output load capacitance in pF

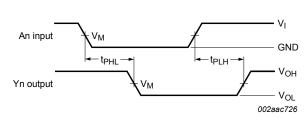
V<sub>CC</sub> = supply voltage in Volts

N = number of inputs switching

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

#### 18-bit registered driver with Dynamic Controlled Outputs; 3-state

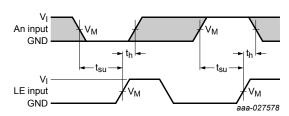
#### 10.1. Waveforms and test circuit



Measurement points are given in Table 8.

V<sub>OL</sub> and V<sub>OH</sub> are typical voltage output levels that occur with the output load.

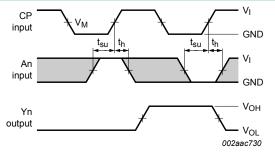
Fig. 6. Input (An) to output (Yn) propagation delay



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 set-up and hold times, An input to LE input

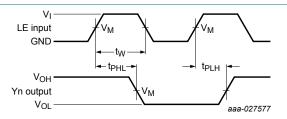


Measurement points are given in Table 8.

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

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

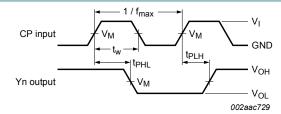
Fig. 10. Data set-up and hold times, An input to CP input



Measurement points are given in Table 8.

V<sub>OL</sub> and V<sub>OH</sub> are typical voltage output levels that occur with the output load.

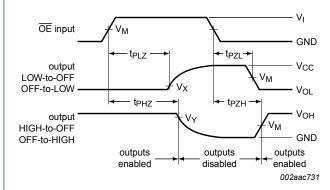
Latch enable input (LE) pulse width, the latch Fig. 7. enable input to output (Yn) propagation delays



Measurement points are given in Table 8.

V<sub>OL</sub> and V<sub>OH</sub> are typical voltage output levels that occur with the output load.

Fig. 9. The clock (CP) to output (Yn) propagation delays, the clock pulse width and the maximum clock frequency



Measurement points are given in Table 8.

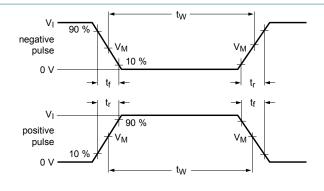
 $V_{\text{OL}}$  and  $V_{\text{OH}}$  are typical voltage output levels that occur with the output load.

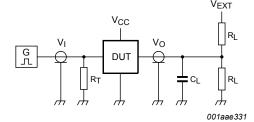
Fig. 11. 3-state enable and disable times

**Table 8. Measurement points** 

Supply voltage	Input		Output					
V <sub>CC</sub>	V <sub>I</sub>	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			
3.0 V to 3.6 V	V <sub>CC</sub>	0.5 x V <sub>CC</sub>	0.5 x V <sub>CC</sub>	V <sub>OL</sub> + 0.3 V	V <sub>OH</sub> - 0.3 V			

#### 18-bit registered driver with Dynamic Controlled Outputs; 3-state





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.

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

Fig. 12. Test circuit for measuring switching times

Table 9. Test data

Supply voltage	Input		Load		V <sub>EXT</sub>			
V <sub>CC</sub>	V <sub>I</sub> t <sub>r</sub> , t <sub>f</sub>		CL	$R_L$	t <sub>PLH</sub> , t <sub>PHL</sub>	t <sub>PLZ</sub> , t <sub>PZL</sub>	t <sub>PHZ</sub> , t <sub>PZH</sub>	
≤ 2.3 V	V <sub>CC</sub>	≤ 2.0 ns	30 pF	1000 Ω	open	2 x V <sub>CC</sub>	GND	
2.3 V to 2.7 V	V <sub>CC</sub>	≤ 2.0 ns	30 pF	500 Ω	open	2 x V <sub>CC</sub>	GND	
3.0 V to 3.6 V	V <sub>CC</sub>	≤ 2.0 ns	30 pF	500 Ω	open	2 x V <sub>CC</sub>	GND	

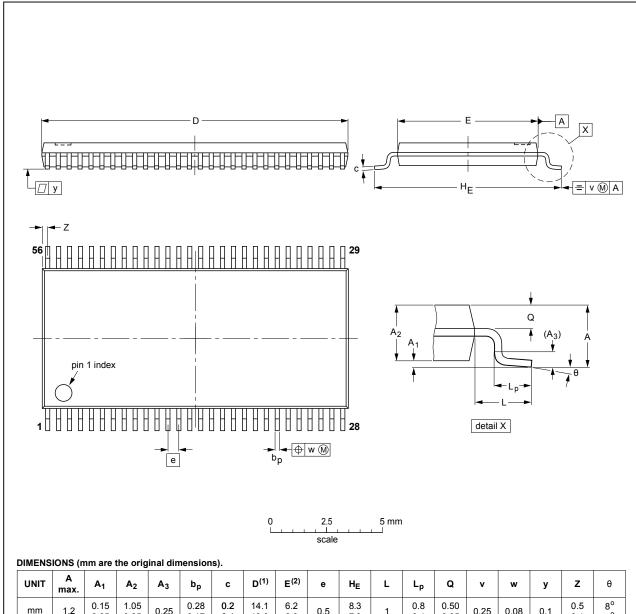
**Product data sheet** 

#### 18-bit registered driver with Dynamic Controlled Outputs; 3-state

## 11. Package outline

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

SOT364-1



UNIT	A max.	A <sub>1</sub>	A <sub>2</sub>	<b>A</b> <sub>3</sub>	bp	C	D <sup>(1)</sup>	E <sup>(2)</sup>	е	HE	L	Lp	Q	٧	w	у	Z	θ
mm	1.2	0.15 0.05	1.05 0.85	0.25	0.28 0.17	0.2 0.1	14.1 13.9	6.2 6.0	0.5	8.3 7.9	1	0.8 0.4	0.50 0.35	0.25	0.08	0.1	0.5 0.1	8° 0°

#### Notes

- 1. Plastic or metal protrusions of 0.15 mm maximum per side are not included.
- 2. Plastic interlead protrusions of 0.25 mm maximum per side are not included.

OUTLINE		REFER	RENCES	EUROPEAN	ISSUE DATE
VERSION	IEC	JEDEC	JEITA	PROJECTION	ISSUE DATE
SOT364-1		MO-153			<del>99-12-27</del> 03-02-19

Fig. 13. Package outline SOT364-1 (TSSOP56)

12 / 15

#### 18-bit registered driver with Dynamic Controlled Outputs; 3-state

## 12. Abbreviations

#### **Table 10. Abbreviations**

Acronym	Description
CMOS	Complementary Metal-Oxide Semiconductor
DCO	Dynamic Controlled Output
DUT	Device Under Test

## 13. Revision history

#### **Table 11. Revision history**

Table 11. Revision history							
Release date	Data sheet status	Change notice	Supersedes				
20180924	Product data sheet	-	74AVC16835A v.5				
<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> <li>Type number 74AVC16835ADGV (SOT481-2) removed.</li> </ul>							
20020315	Product data sheet	-	74AVC16835A v.4				
20000725	Product specification	-	74AVC16835A v.3				
20000502	Preliminary specification	-	74AVC16835 v.2				
19990405	Preliminary specification	-	74AVC_AVCH16835 v.1				
19981207	Objective specification	-	-				
	20180924  The format of the Nexperia. Legal texts have Type number 7 20020315 20000725 20000502	20180924 Product data sheet  The format of this data sheet has been rede Nexperia. Legal texts have been adapted to the new of Type number 74AVC16835ADGV (SOT481)  20020315 Product data sheet  20000725 Product specification  20000502 Preliminary specification  19990405 Preliminary specification	20180924 Product data sheet -  The format of this data sheet has been redesigned to comply we Nexperia.  Legal texts have been adapted to the new company name whee Type number 74AVC16835ADGV (SOT481-2) removed.  20020315 Product data sheet - 20000725 Product specification - 20000502 Preliminary specification - 19990405 Preliminary specification -				

#### 18-bit registered driver with Dynamic Controlled Outputs; 3-state

#### 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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#### 18-bit registered driver with Dynamic Controlled Outputs; 3-state

## **Contents**

1. General description	1
2. Features and benefits	1
3. Ordering information	1
4. Functional diagram	2
5. Pinning information	3
5.1. Pinning	3
5.2. Pin description	4
6. Functional description	4
7. Limiting values	
8. Recommended operating conditions	5
9. Static characteristics	
9.1. Dynamic Controlled Output graphs	7
10. Dynamic characteristics	
10.1. Waveforms and test circuit	10
11. Package outline	12
12. Abbreviations	13
13. Revision history	13
14. Legal information	
-	

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