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Kind regards,

Team Nexperia

INTEGRATED CIRCUITS

DATA SHEET

74AVC16834A

18-bit registered driver with inverted register enable and Dynamic Controlled Outputs™ (3-State)

Product data Supersedes data of 2000 Jul 25





18-bit registered driver with inverted register enable and Dynamic Controlled Outputs™ (3-State)

74AVC16834A

FEATURES

- Wide supply voltage range of 1.2 V to 3.6 V
- Complies with JEDEC standard no. 8-1A/5/7
- CMOS low power consumption
- Input/output tolerant up to 3.6 V
- DCO (Dynamic Controlled Output) circuit dynamically changes output impedance, resulting in noise reduction without speed degradation
- Low inductance multiple V_{CC} and GND pins for minimum noise and ground bounce
- Power off disables 74AVC16834A outputs, permitting Live Insertion
- Integrated input diodes to minimize input overshoot and undershoot
- Full PC133 solution provided when used with PCK2509S or PCK2510S and CBT16292

DESCRIPTION

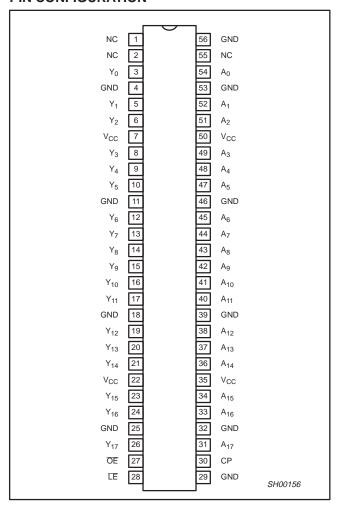
The 74AVC16834A is a 18-bit universal bus driver. Data flow is controlled by output enable (\overline{OE}) , latch enable (\overline{LE}) and clock inputs (CP).

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{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 the graphs on page 9 for typical curves.

PIN CONFIGURATION



QUICK REFERENCE DATA

GND = 0 V; T_{amb} = 25 °C; $t_r = t_f \le 2.0$ ns; $C_L = 30$ pF.

SYMBOL	PARAMETER	CONDITION	NS	TYPICAL	UNIT	
t _{PHL} /t _{PLH}	Propagation delay An to Yn	V _{CC} = 1.8 V V _{CC} = 2.5 V V _{CC} = 3.3 V	2.6 2.0 1.7	ns		
t _{PHL} /t _{PLH}	Propagation delay LE to Yn; CP to Yn	V _{CC} = 1.8 V V _{CC} = 2.5 V V _{CC} = 3.3 V	2.9 2.3 1.9	ns		
C _I	Input capacitance			5.0	pF	
C	Power discipation especitance per buffer	$V_{L} = GND \text{ to } V_{CC}^{-1}$	Outputs enabled 25		pF	
C _{PD}	Power dissipation capacitance per buffer	AL = GIAD to ACC.	Output disabled	6	PL	

NOTES:

1. C_{PD} is used to determine the dynamic power dissipation (P_D in μW):

 $\begin{array}{l} P_D = C_{PD} \times V_{CC}^2 \times f_i + \Sigma \left(C_L \times V_{CC}^2 \times f_o \right) \text{ where: } f_i = \text{input frequency in MHz; } C_L = \text{output load capacitance in pF; } f_o = \text{output frequency in MHz; } V_{CC} = \text{supply voltage in V; } \Sigma \left(C_L \times V_{CC}^2 \times f_o \right) = \text{sum of outputs.} \end{array}$

ORDERING INFORMATION

PACKAGES	TEMPERATURE RANGE	ORDER CODE	DRAWING NUMBER	
56-Pin Plastic 0.5 mm pitch TSSOP	–40°C to +85°C	74AVC16834ADGG	SOT364-1	
56-Pin Plastic 0.4 pitch TSSOP (TVSOP)	-40°C to +85°C	74AVC16834ADGV	SOT481-2	

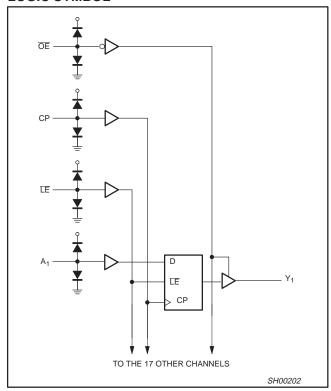
18-bit registered driver with inverted register enable and Dynamic Controlled Outputs™ (3-State)

74AVC16834A

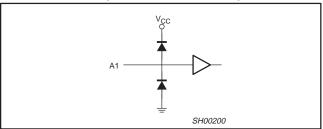
PIN DESCRIPTION

PIN NUMBER	SYMBOL	NAME AND FUNCTION
1, 2, 55	NC	No connection
3, 5, 6, 8, 9, 10, 12, 13, 14, 15, 16, 17, 19, 20, 21, 23, 24, 26	Y ₀ to Y ₁₇	Data outputs
4, 11, 18, 25, 32, 39, 46, 53, 56	GND	Ground (0 V)
7, 22, 35, 50	V _{CC}	Positive supply voltage
27	ŌĒ	Output enable input (active LOW)
28	LE	Latch enable input (active LOW)
30	CP	Clock input
54, 52, 51, 49, 48, 47, 45, 44, 43, 42, 41, 40, 38, 37, 36, 34, 33, 31	A ₀ to A ₁₇	Data inputs

LOGIC SYMBOL



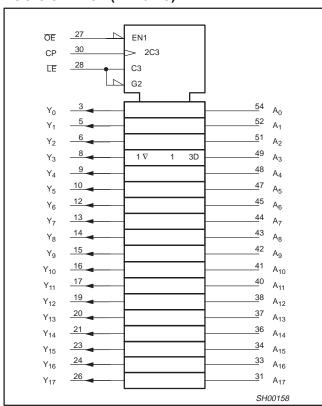
TYPICAL INPUT (DATA OR CONTROL)



18-bit registered driver with inverted register enable and Dynamic Controlled Outputs™ (3-State)

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LOGIC SYMBOL (IEEE/IEC)



FUNCTION TABLE

	INPUTS								
ŌĒ	LE	СР	Α	OUTPUTS					
Н	Х	Х	Х	Z					
L	L	Х	L	L					
L	L	Х	Н	Н					
L	Н	↑	L	L					
L	Н	↑	Н	Н					
L	Н	Н	Х	Y ₀ ¹					
L	Н	L	Х	Y ₀ ²					

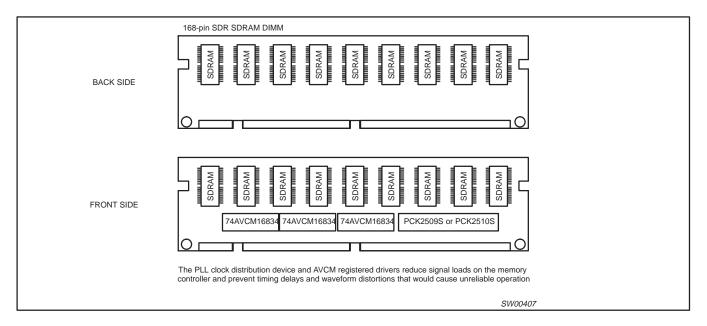
HIGH voltage level

LOW voltage level

Don't care

X Z ↑ High impedance "off" state LOW-to-HIGH level transition

- 1. Output level before the indicated steady-state input conditions were established, provided that CP is high before LE goes low.
- 2. Output level before the indicated steady-state input conditions were established.



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RECOMMENDED OPERATING CONDITIONS

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT	
			1.65	1.95		
\ \ \	DC supply voltage (according to JEDEC Low Voltage Standards)		2.3	2.7	V	
V _{CC}			3.0	3.6		
	DC supply voltage (for low voltage applications)		1.2	3.6	V	
VI	DC Input voltage range		0	3.6	V	
V	DC output voltage range; output 3-State		0	3.6	V	
Vo	DC output voltage range; output HIGH or LOW state		0	V _{CC}	V	
T _{amb}	Operating free-air temperature range		-40	+85	°C	
		V _{CC} = 1.65 to 2.3 V	0	30		
t _r , t _f	Input rise and fall times	$V_{CC} = 2.3 \text{ to } 3.0 \text{ V}$	0	20	ns/V	
		$V_{CC} = 3.0 \text{ to } 3.6 \text{ V}$	0	10		

ABSOLUTE MAXIMUM RATINGS

In accordance with the Absolute Maximum Rating System (IEC 134). Voltages are referenced to GND (ground = 0 V).

SYMBOL	PARAMETER	CONDITIONS	RATING	UNIT
V _{CC}	DC supply voltage		-0.5 to +4.6	V
I _{IK}	DC input diode current	V _I < 0	-50	mA
VI	DC input voltage	For all inputs ¹	-0.5 to 4.6	V
I _{OK}	DC output diode current	$V_{O} > V_{CC}$ or $V_{O} < 0$	±50	mA
Vo	DC output voltage; output 3-State	Note 1	-0.5 to 4.6	V
Vo	DC output voltage; output HIGH or LOW state	Note 1	-0.5 to V _{CC} +0.5	V
I _O	DC output source or sink current	$V_O = 0$ to V_{CC}	±50	mA
I _{GND} , I _{CC}	DC V _{CC} or GND current		±100	mA
T _{stg}	Storage temperature range		-65 to +150	°C
P _{TOT}	Power dissipation per package –plastic thin-medium-shrink (TSSOP)	For temperature range: -40 to +125 °C above +55 °C derate linearly with 8 mW/K	600	mW

NOTE:

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

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DC ELECTRICAL CHARACTERISTICS

Over recommended operating conditions. Voltage are referenced to GND (ground = 0 V).

				LIMITS					
SYMBOL	PARAMETER	TEST CONDITIONS	Temp :	= -40°C to +8	5°C	UNIT			
			MIN	TYP ¹	MAX	1			
		V _{CC} = 1.2 V	V _{CC}	-	-				
	LUCI Haval land tooks as	V _{CC} = 1.65 to 1.95 V	0.65V _{CC}	0.9	-	\ _\			
V_{IH}	HIGH level Input voltage	V _{CC} = 2.3 to 2.7 V	1.7	1.2	-	1 '			
		V _{CC} = 3.0 to 3.6 V	2.0	1.5	-	1			
		V _{CC} = 1.2 V	-	-	GND				
\/	LOW level land voltage	V _{CC} = 1.65 to 1.95 V	-	0.9	0.35V _{CC}] _v			
V_{IL}	LOW level Input voltage	V _{CC} = 2.3 to 2.7 V	_	1.2	0.7	1 °			
		V _{CC} = 3.0 to 3.6 V	-	1.5	0.8	1			
		V_{CC} = 1.65 to 3.6V; V_I = V_{IH} or V_{IL} ; I_O = -100 μA	V _{CC} -0.20	V _{CC}	-				
V_{OH}	HIGH level output voltage	$V_{CC} = 1.65 \text{ V}; V_I = V_{IH} \text{ or } V_{IL}; I_O = -4 \text{ mA}$	V _{CC} - 0.45	V _{CC} -0.10	-	V			
.		$V_{CC} = 2.3 \text{ V}; V_I = V_{IH} \text{ or } V_{IL}; I_O = -8 \text{ mA}$	V _{CC} - 0.55	V _{CC} - 0.28	-	1			
		$V_{CC} = 3.0 \text{ V}; V_I = V_{IH} \text{ or } V_{IL}; I_O = -12 \text{ mA}$	V _{CC} -0.70	V _{CC} -0.32	-	1			
		$V_{CC} = 1.65 \text{ to } 3.6 \text{ V}; \ V_I = V_{IH} \text{ or } V_{IL}; \ I_O = 100 \ \mu\text{A}$	-	GND	0.20				
V_{OL}	LOW level output voltage	V_{CC} = 1.65 V; V_I = V_{IH} or V_{IL} ; I_O = 4 mA	-	0.10	0.45	V			
		$V_{CC} = 2.3 \text{ V}; V_I = V_{IH} \text{ or } V_{IL}; I_O = 8 \text{ mA}$	-	0.26	0.55				
		$V_{CC} = 3.0 \text{ V}; V_I = V_{IH} \text{ or } V_{IL}; I_O = 12 \text{ mA}$	-	0.36	0.70	1			
lį	Input leakage current	$V_{CC} = 1.65 \text{ to } 3.6 \text{ V};$ $V_{I} = V_{CC} \text{ or GND}$	-	0.1	2.5	μА			
I _{OFF}	3-State output OFF-state current	$V_{CC} = 0 \text{ V}; V_{I} \text{ or } V_{O} = 3.6 \text{ V}$	-	0.1	±10	μΑ			
I _{IHZ} /I _{ILZ}	3-State output OFF-state current	$V_{CC} = 1.65 \text{ to } 3.6 \text{ V}; V_I = V_{CC} \text{ or GND}$	_	0.1	12.5	μА			
lo-	3-State output OFF-state current	V_{CC} = 1.65 to 2.7 V; V_I = V_{IH} or V_{IL} ; V_O = V_{CC} or GND		0.1	5				
l _{OZ}	3-State output OFF-State current	V_{CC} = 3.0 to 3.6 V; V_{I} = V_{IH} or V_{IL} ; V_{O} = V_{CC} or GND	-	0.1	10	μΑ			
laa	Quiescent supply current	$V_{CC} = 1.65 \text{ to } 2.7 \text{ V}; V_I = V_{CC} \text{ or GND}; I_O = 0$	_	0.1	20	μА			
I _{CC}	Quiescent supply current	$V_{CC} = 3.0 \text{ to } 3.6 \text{ V}; V_{I} = V_{CC} \text{ or GND}; I_{O} = 0$	-	0.2	40	μΑ			

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NOTE:
1. All typical values are at T_{amb} = 25 °C.

18-bit registered driver with inverted register enable and Dynamic Controlled Outputs™ (3-State)

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AC CHARACTERISTICS

GND = 0 V; $t_r = t_f \le 2.0 \text{ ns}$; $C_L = 30 \text{ pF}$

									LIMI	TS						
SYMBOL	PARAMETER	WAVEFORM	V _{CC}	= 3.3 ± (0.3 V	V _{CC}	= 2.5 ± (0.2 V	V _{CC} :	= 1.8 ± 0	.15 V	V _C (c = 0.1 V	V _{CC} = 1.5 V	V _{CC} = 1.2 V	UNIT
			MIN	TYP ¹	MAX	MIN	TYP ¹	MAX	MIN	TYP ¹	MAX	MIN	MAX	TYP	TYP]
	Propagation delay An to Yn	1, 7	0.9 0.7	1.7	2.6 2.5	1.0 0.8	2.0	3.2 3.0	1.5 1.0	2.8 2.6	4.9 4.5	2.0	5.8	3.6	5.9 5.2	
t _{PHL} /t _{PLH}	Propagation delay LE to Yn	2, 7	1.2 0.7	2.0 1.9	3.0 2.9	1.5 0.8	2.4 2.3	3.7 3.5	1.8 1.0	3.4 2.9	5.3	2.3	6.5	4.0	6.5 5.8	ns
	Propagation delay CP to Yn	3, 7	0.8 0.7	1.7	2.5	1.1 0.8	2.0	3.0	1.6 1.0	2.8 2.6	4.4 4.5	2.0	5.1	3.7	4.9 5.2	
t _{PZH} /t _{PZL}	3-State output enable time OE to Yn	6, 7	1.3 1.0	2.5 2.3	4.3 4.0	1.6 1.0	2.8 2.5	4.8 4.5	2.2 1.5	4.0 3.0	6.7 6.5	2.8	8.2	5.0	8.0 5.5	ns
t _{PHZ} /t _{PLZ}	3-State output disable time OE to Yn	6, 7	1.5 1.0	3.0 2.3	4.7 3.5	1.5 1.0	3.4 2.2	5.6 4.0	2.4 1.5	4.6 3.5	7.2 6.5	2.1	6.9	4.5	6.5 5.5	ns
	CP pulse width HIGH or LOW	3, 7	1.0	_	_	1.2	_	_	2.0	_	_	_	_	-	-	ns
t _W	LE pulse width HIGH	2, 7	1.0	_	_	1.2	_	_	2.0	_	_	_	_	-	-	115
4-	Set-up time An to CP	5, 7	0.3	-0.5	_	0.1	-0.2	_	0	-0.2	_	0.2	_	0	0	ns
t _{SU}	Set-up time An to LE	4, 7	0.5	0.1	_	0.6	0.1	_	1.0	0.5	_	1.5	_	0.8	1.5	115
	Hold time An to CP	5, 7	0.9	0.6	-	0.7	0.3	-	0.7	0.3	-	0.6	_	0.3	0.1	
t _h	Hold time An to LE	4, 7	0.6	0.4	-	0.2	0.1	_	0.1	0	-	0.1	_	0	-0.7	ns
f _{max}	Maximum clock pulse frequency	3, 7	500	_	_	400	_	_	250	_	_	_	_	-	-	MHz

NOTE:

^{1.} All typical values are measured at T_{amb} = 25 $^{\circ}C$ and at V_{CC} = 1.8 V, 2.5 V, 3.3 V.

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AC WAVEFORMS FOR $V_{CC} = 3.0 \text{ V}$ TO 3.6 V RANGE

 $V_{M} = 0.5 V_{CC}$ $V_{X} = V_{OL} + 0.300 V$ $V_{Y} = V_{OH} - 0.300 V$

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

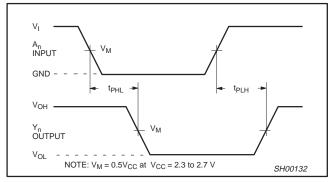
 $V_I = V_{CC}$

AC WAVEFORMS FOR V_{CC} = 2.3 V TO 2.7 V AND V_{CC} < 2.3 V RANGE

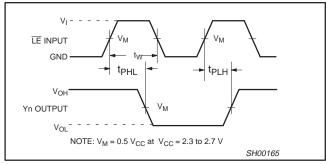
 $V_{M} = 0.5 V_{CC}$ $V_{X} = V_{OL} + 0.15 V$ $V_{Y} = V_{OH} - 0.15 V$

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

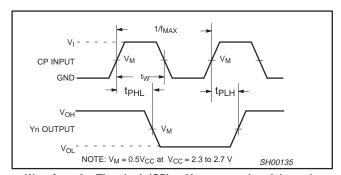
 $V_I = V_{CC}$



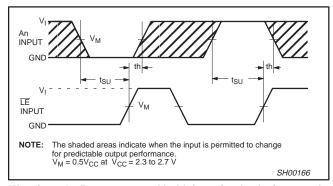
Waveform 1. Input (An) to output (Yn) propagation delay



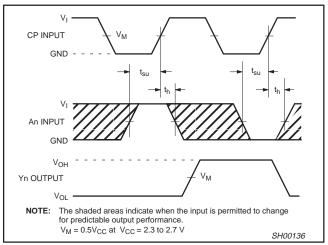
Waveform 2. Latch enable input (LE) pulse width, the latch enable input to output (Yn) propagation delays.



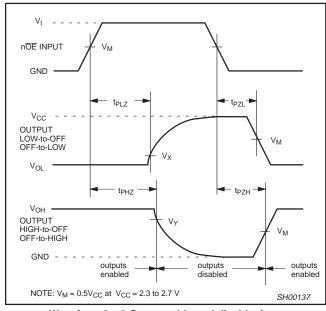
Waveform 3. The clock (CP) to Yn propagation delays, the clock pulse width and the maximum clock frequency.



Waveform 4. Data set-up and hold times for the An input to the LE input



Waveform 5. Data set-up and hold times for the An input to the clock CP input

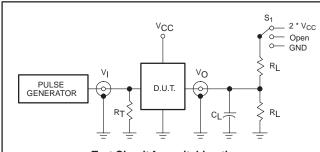


Waveform 6. 3-State enable and disable times

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TEST CIRCUIT



Test Circuit for switching times

DEFINITIONS

R_L = Load resistor

C_L = Load capacitance includes jig and probe capacitance

 R_T = Termination resistance should be equal to Z_{OUT} of pulse generators.

SWITCH POSITION

TEST	S ₁
t _{PLH} /t _{PHL}	Open
t _{PLZ} /t _{PZL}	2 * V _{CC}
t _{PHZ} /t _{PZH}	GND

v _{cc}	VI	R _L		
< 2.3 V	V _{CC}	1000 Ω		
2.3–2.7 V	V _{CC}	500 Ω		
3.0 V	V _{CC}	500 Ω		

SV01018

Waveform 7. Load circuitry for switching times

GRAPHS

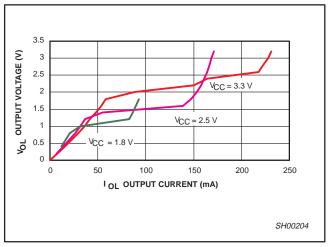


Figure 1. Output voltage (V_{OL}) vs. output current (I_{OL})

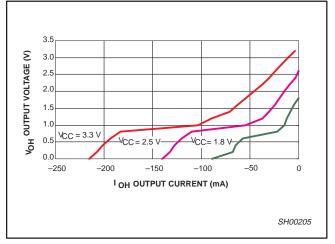


Figure 2. Output voltage (V_{OH}) vs. output current (I_{OH})

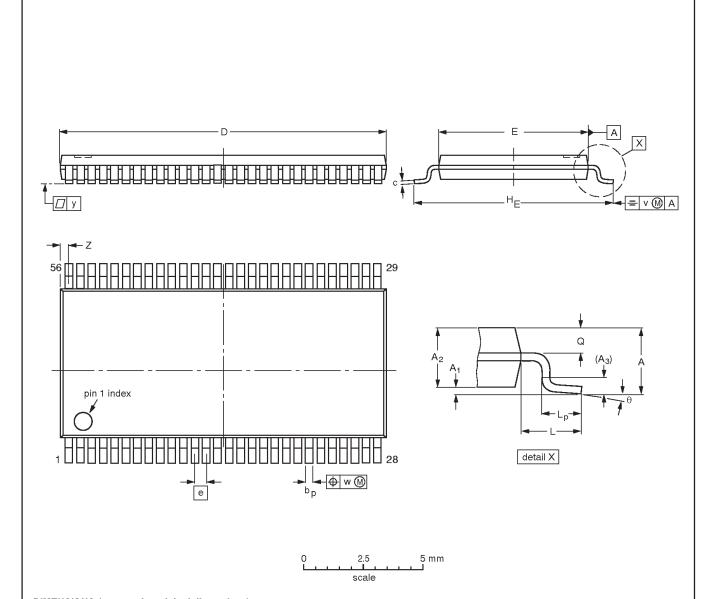
A Dynamic Controlled Output (DCO) circuit is designed in. During the transition, it initially lowers the output impedance to effectively drive the load and, subsequently, raises the impedance to reduce noise. Figures 1 and 2 show V_{OL} vs. I_{OL} and V_{OH} vs. I_{OH} curves to illustrate the output 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.

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

SOT364-1



DIMENSIONS (mm are the original dimensions).

UNIT	A max.	A ₁	A ₂	А3	bp	С	D ⁽¹⁾	E ⁽²⁾	е	HE	L	Lp	Q	v	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	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.

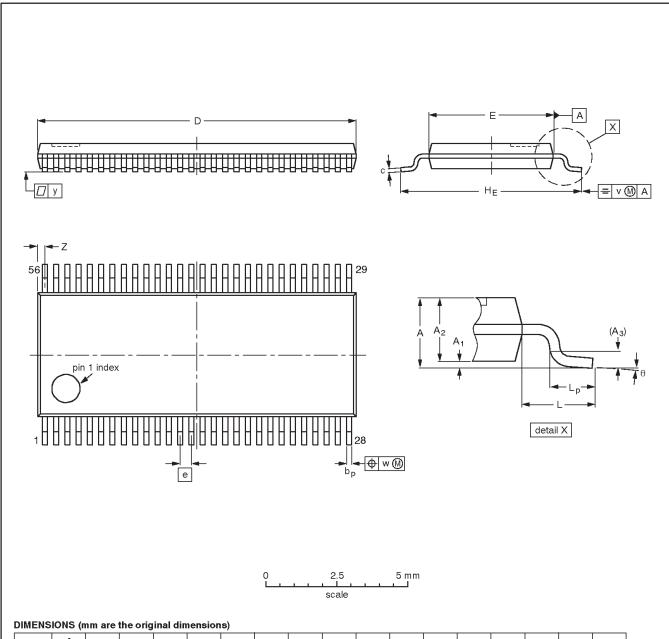
OUTLINE		REFER	RENCES	EUROPEAN	ISSUE DATE	
VERSION	IEC	JEDEC	EIAJ		PROJECTION	ISSUE DATE
SOT364-1		MO-153				-95-02-10- 99-12-27

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TSSOP56: plastic thin shrink small outline package; 56 leads; body width 4.4 mm

SOT481-2



UNIT	A max.	A ₁	A ₂	A ₃	ь _р	c	D (1)	E ⁽²⁾	е	НE	L	Lp	٧	w	у	Z ⁽¹⁾	θ
mm	1.2	0.15 0.05	1.05 0.80	0.25	0.23 0.13	0.20 0.09	11.4 11.2	4.5 4.3	0.4	6.6 6.2	1	0.75 0.45	0.2	0.07	0.08	0.4 0.1	8° 0°

Notes

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

OUTLINE		REFER	EUROPEAN	ISSUE DATE			
VERSION	IEC	JEDEC	JEITA		PROJECTION	ISSUE DATE	
SOT481-2		MO-194				01-11-24	

18-bit registered driver with inverted register enable and Dynamic Controlled Outputs™ (3-State)

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REVISION HISTORY

Rev	Date	Description
_4	2000 Jul 25	Product specification (9397 750 07353); fourth version. Engineering Change Notice: 853-2207 24201:
_5	2002 Sep 11	Product data (9397 750 10331); fifth version supersedes Product specification 2000 Jul 25. Engineering Change Notice: 853-2207 28874 (2002 Sep 09).
		Modifications: Add new package option (TVSOP) to existing product data sheet.

18-bit registered driver with inverted register enable and Dynamic Controlled Outputs™ (3-State)

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Data sheet status

Data sheet status ^[1]	Product status ^[2]	Definitions
Objective data	Development	This data sheet contains data from the objective specification for product development. Philips Semiconductors reserves the right to change the specification in any manner without notice.
Preliminary data	Qualification	This data sheet contains data from the preliminary specification. Supplementary data will be published at a later date. Philips Semiconductors reserves the right to change the specification without notice, in order to improve the design and supply the best possible product.
Product data	Production	This data sheet contains data from the product specification. Philips Semiconductors reserves the right to make changes at any time in order to improve the design, manufacturing and supply. Changes will be communicated according to the Customer Product/Process Change Notification (CPCN) procedure SNW-SQ-650A.

^[1] Please consult the most recently issued data sheet before initiating or completing a design.

Definitions

Short-form specification — The data in a short-form specification is extracted from a full data sheet with the same type number and title. For detailed information see the relevant data sheet or data handbook.

Limiting values definition — Limiting values given are in accordance with the Absolute Maximum Rating System (IEC 60134). Stress above one or more of the limiting values may cause permanent damage to the device. These are stress ratings only and operation of the device at these or at any other conditions above those given in the Characteristics sections of the specification is not implied. Exposure to limiting values for extended periods may affect device reliability.

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^[2] The product status of the device(s) described in this data sheet may have changed since this data sheet was published. The latest information is available on the Internet at URL http://www.semiconductors.philips.com.

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