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Kind regards,

Team Nexperia

INTEGRATED CIRCUITS

DATA SHEET

74ALVCH16827

20-bit buffer/line driver, non-inverting (3-State)

Product specification

1998 Jul 27

IC24 Data Handbook





20-bit buffer/line driver, non-inverting (3-State)

74ALVCH16827

FEATURES

- Wide supply voltage range of 1.2V to 3.6V
- Complies with JEDEC standard no. 8-1A
- Wide supply voltage range of 1.2V to 3.6V
- CMOS low power consumption
- Direct interface with TTL levels
- Universal bus transceiver with D-type latches and D-type flip-flops capable of operating in transparent, latched, clocked or clocked-enabled mode.
- MULTIBYTETM flow-through standard pin-out architecture
- Low inductance multiple V_{CC} and GND pins for minimum noise and ground bounce
- Current drive ±24 mA at 3.0 V
- All inputs have bus hold circuitry
- Output drive capability 50Ω transmission lines @ 85°C
- 3-State non-inverting outputs for bus oriented applications

DESCRIPTION

The 74ALVCH16827 is a 20-bit non-inverting buffer/driver with 3-State outputs for bus oriented applications.

The 74ALVCH16827 consists of two 10-bit sections with separate output enable signals. For either 10-bit buffer section, the two output enable (1ŌE1 and 1ŌE2 or 2ŌE1 and 2ŌE2) inputs must both be active. If either output enable input is high, the outputs of that 10-bit buffer section are in high impedance state.

The 74ALVCH16827 has active bus hold circuitry which is provided to hold unused or floating data inputs at a valid logic level. This feature eliminates the need for external pull-up or pull-down resistors.

QUICK REFERENCE DATA

GND = 0V; $T_{amb} = 25^{\circ}C$; $t_r = t_f = 2.5$ ns

SYMBOL	PARAMETER	CONDITION	TYPICAL	UNIT	
t _{PHL} /t _{PLH}	Propagation delay CP to Qn	$V_{CC} = 2.5V, C_L = 30pF$ $V_{CC} = 3.3V, C_L = 50pF$	2.0 2.0	ns	
C _I	Input capacitance			5	pF
C _{PD}	Power dissipation capacitance per latch	$V_1 = GND \text{ to } V_{CC}^{-1}$	Output enabled	20	PΓ
ОРО	1 ower dissipation capacitance per laten	V = 8ND to VCC	Output disabled	3	ы

NOTES:

ORDERING INFORMATION

PACKAGES	TEMPERATURE RANGE	OUTSIDE NORTH AMERICA	NORTH AMERICA	DWG NUMBER
56-Pin Plastic TSSOP Type II	-40°C to +85°C	74ALVCH16827 DGG	ACH16827 DGG	SOT364-1

PIN DESCRIPTION

PIN NUMBER	SYMBOL	FUNCTION	
55, 54, 52, 51, 49, 48, 47, 45, 44, 43, 42, 41, 40, 38, 37, 36, 34, 33, 31, 30	1A0 - 1A9 2A0 - 2A9	Data inputs	
2, 3, 5, 6, 8, 9, 10, 12, 13, 14, 15, 16, 17, 19, 20, 21, 23, 24, 26, 27	1Y0 - 1Y9 2Y0 - 2Y9	Data outputs	
1, 56, 28, 29	1 <u>0E</u> 0, 1 <u>0E</u> 1 2 <u>0E</u> 0, 2 <u>0E</u> 1	Output enable inputs (active-Low)	
4, 11, 18, 25, 32, 39, 46, 53	GND	Ground (0V)	
7, 22, 35, 50	V _{CC}	Positive supply voltage	

^{1.} C_{PD} is used to determine the dynamic power dissipation (P_D in μ W): $P_D = C_{PD} \times V_{CC}^2 \times f_i + \Sigma (C_L \times V_{CC}^2 \times f_o)$ where:

f_i = input frequency in MHz; C_L = output load capacity in pF;

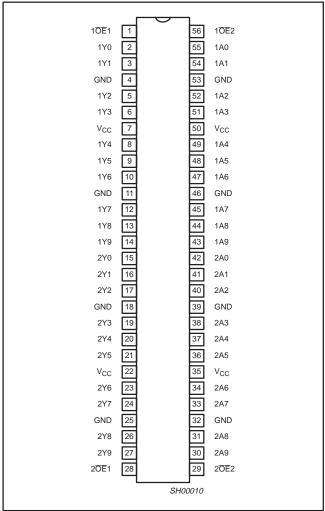
 f_o = output frequency in MHz; V_{CC} = supply voltage in V;

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

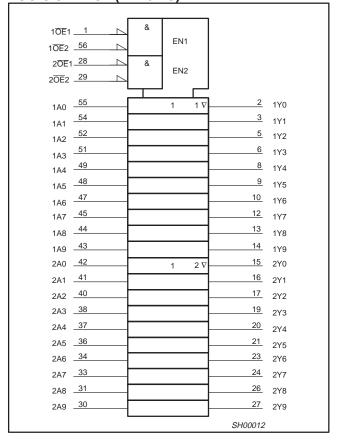
20-bit buffer/line driver, non-inverting (3-State)

74ALVCH16827

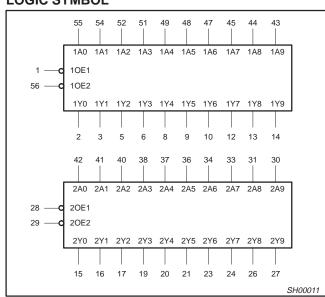
PIN CONFIGURATION



LOGIC SYMBOL (IEEE/IEC)



LOGIC SYMBOL



FUNCTION TABLE

	INPUTS	OUTPUTS	
n OE 1	nOE2	Α	Y
L	L	L	L
L	L	Н	Н
Н	Н	Х	Z
Х	Н	Х	Z

H = High voltage level

L = Low voltage level

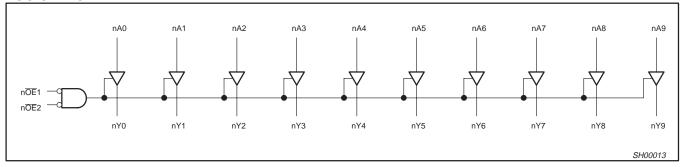
X = Don't care

Z = High impedance "off" state

20-bit buffer/line driver, non-inverting (3-State)

74ALVCH16827

LOGIC DIAGRAM



RECOMMENDED OPERATING CONDITIONS

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
	DC supply voltage 2.5V range (for max. speed performance @ 30 pF output load)		2.3	2.7	V
Vcc	DC supply voltage 3.3V range (for max. speed performance @ 50 pF output load)		3.0	3.6	V
VI	DC Input voltage range		0	V _{CC}	V
V _O	DC output voltage range		0	V _{CC}	V
T _{amb}	Operating free-air temperature range		-40	+85	°C
t _r , t _f	Input rise and fall times	V _{CC} = 2.3 to 3.0V V _{CC} = 3.0 to 3.6V	0	20 10	ns/V

ABSOLUTE MAXIMUM RATINGS¹

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

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
V _I	DC input voltage	For control pins ²	-0.5 to +4.6	V
v ₁	DC Input voltage	For data inputs ²	-0.5 to V _{CC} +0.5	V
I _{OK}	DC output diode current	$V_O > V_{CC}$ or $V_O < 0$	±50	mA
Vo	DC output voltage	Note 2	–0.5 to V _{CC} +0.5	V
Io	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 medium-shrink (SSOP) -plastic thin-medium-shrink (TSSOP)	For temperature range: -40 to +125 °C above +55°C derate linearly with 11.3 mW/K above +55°C derate linearly with 8 mW/K	850 600	mW

NOTE

Stresses beyond those listed may cause permanent damage to the device. These are stress ratings only and functional operation of the
device at these or any other conditions beyond those indicated under "recommended operating conditions" is not implied. Exposure to
absolute-maximum-rated conditions for extended periods may affect device reliability.

^{2.} The input and output voltage ratings may be exceeded if the input and output current ratings are observed.

20-bit buffer/line driver, non-inverting (3-State)

74ALVCH16827

DC ELECTRICAL CHARACTERISTICS

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

PARAMETER H level Input voltage Hevel Input voltage	TEST CONDITIONS $V_{CC} = 2.3 \text{ to } 2.7V$ $V_{CC} = 2.7 \text{ to } 3.6V$ $V_{CC} = 2.3 \text{ to } 2.7V$ $V_{CC} = 2.3 \text{ to } 3.6V$ $V_{CC} = 2.3 \text{ to } 3.6V; V_I = V_{IH} \text{ or } V_{IL}; I_O = -100 \mu \text{A}$ $V_{CC} = 2.3V; V_I = V_{IH} \text{ or } V_{IL}; I_O = -6 \text{mA}$ $V_{CC} = 2.3V; V_I = V_{IH} \text{ or } V_{IL}; I_O = -12 \text{mA}$	Temp = MIN 1.7 2.0 V _{CC} - 0.2 V _{CC} - 0.3	1.2 1.5 1.5 1.5 V _{CC}	5°C MAX 0.7 0.8	UNIT V
level Input voltage	$\begin{split} &V_{CC} = 2.7 \text{ to } 3.6 \text{V} \\ &V_{CC} = 2.3 \text{ to } 2.7 \text{V} \\ &V_{CC} = 2.7 \text{ to } 3.6 \text{V} \\ &V_{CC} = 2.3 \text{ to } 3.6 \text{V}; V_I = V_{IH} \text{ or } V_{IL}; I_O = -100 \mu\text{A} \\ &V_{CC} = 2.3 \text{V}; V_I = V_{IH} \text{ or } V_{IL}; I_O = -6 \text{mA} \end{split}$	1.7 2.0 V _{CC} -0.2	1.2 1.5 1.2 1.5	0.7	
level Input voltage	$\begin{split} &V_{CC} = 2.7 \text{ to } 3.6 \text{V} \\ &V_{CC} = 2.3 \text{ to } 2.7 \text{V} \\ &V_{CC} = 2.7 \text{ to } 3.6 \text{V} \\ &V_{CC} = 2.3 \text{ to } 3.6 \text{V}; V_I = V_{IH} \text{ or } V_{IL}; I_O = -100 \mu\text{A} \\ &V_{CC} = 2.3 \text{V}; V_I = V_{IH} \text{ or } V_{IL}; I_O = -6 \text{mA} \end{split}$	2.0 V _{CC} -0.2	1.5 1.2 1.5	• • • • • • • • • • • • • • • • • • • •	
level Input voltage	$V_{CC} = 2.3 \text{ to } 2.7 \text{V}$ $V_{CC} = 2.7 \text{ to } 3.6 \text{V}$ $V_{CC} = 2.3 \text{ to } 3.6 \text{V}$; $V_I = V_{IH} \text{ or } V_{IL}$; $I_O = -100 \mu\text{A}$ $V_{CC} = 2.3 \text{V}$; $V_I = V_{IH} \text{ or } V_{IL}$; $I_O = -6 \text{mA}$	V _{CC} -0.2	1.2	• • • • • • • • • • • • • • • • • • • •	
, ,	$V_{CC} = 2.7 \text{ to } 3.6 \text{V}$ $V_{CC} = 2.3 \text{ to } 3.6 \text{V}; V_I = V_{IH} \text{ or } V_{IL}; I_O = -100 \mu\text{A}$ $V_{CC} = 2.3 \text{V}; V_I = V_{IH} \text{ or } V_{IL}; I_O = -6 \text{mA}$		1.5	• • • • • • • • • • • • • • • • • • • •	V
, ,	$V_{CC} = 2.3 \text{ to } 3.6\text{V}; V_{I} = V_{IH} \text{ or } V_{IL}; I_{O} = -100\mu\text{A}$ $V_{CC} = 2.3\text{V}; V_{I} = V_{IH} \text{ or } V_{IL}; I_{O} = -6\text{mA}$			0.8	1 °
l level output voltage	$V_{CC} = 2.3V$; $V_I = V_{IH}$ or V_{IL} ; $I_O = -6$ mA		V _{CC}		
l level output voltage		V _{CC} -0.3			
l level output voltage	$V_{CC} = 2.3V$; $V_I = V_{IH}$ or V_{IL} ; $I_O = -12mA$		V _{CC} -0.08		
1 level output voltage		V _{CC} -0.6	V _{CC} -0.26		
	$V_{CC} = 2.7V$; $V_I = V_{IH}$ or V_{IL} ; $I_O = -12mA$	V _{CC} -0.5	V _{CC} -0.14		1 °
	$V_{CC} = 3.0V$; $V_I = V_{IH}$ or V_{IL} ; $I_O = -12mA$	V _{CC} -0.6 V _{CC} -0.09			1
	$V_{CC} = 3.0V$; $V_I = V_{IH}$ or V_{IL} ; $I_O = -24$ mA	V _{CC} -1.0	V _{CC} -0.28		1
V_{CC} = 2.3 to 3.6V; V_I = V_{IH} or V_{IL} ; I_O = 100 μ A			GND	0.20	٧
	$V_{CC} = 2.3V$; $V_I = V_{IH}$ or V_{IL} ; $I_O = 6mA$		0.07	0.40	V
level output voltage	$V_{CC} = 2.3V$; $V_I = V_{IH}$ or V_{IL} ; $I_O = 12mA$		0.15	0.70	
	$V_{CC} = 2.7V$; $V_I = V_{IH}$ or V_{IL} ; $I_O = 12mA$		0.14	0.40	٧
	$V_{CC} = 3.0V$; $V_I = V_{IH}$ or V_{IL} ; $I_O = 24mA$		0.27	0.55	
leakage current	$V_{CC} = 2.3 \text{ to } 3.6V;$ $V_I = V_{CC} \text{ or GND}$		0.1	5	μА
ate output OFF-state current	V_{CC} = 2.3 to 3.6V; V_I = V_{IH} or V_{IL} ; V_O = V_{CC} or GND		0.1	10	μА
scent supply current	V_{CC} = 2.3 to 3.6V; V_I = V_{CC} or GND; I_O = 0		0.2	40	μΑ
tional quiescent supply current	$V_{CC} = 2.3V$ to 3.6V; $V_I = V_{CC} - 0.6V$; $I_O = 0$		150	750	μΑ
nold LOW sustaining current	$V_{CC} = 2.3V; V_I = 0.7V$	45	-		μА
lold 2011 oddidining odnom		75	150		μ
nold HIGH sustaining current			475		μΑ
aold LOW avardrive aurrent			-1/5		1. ^
ioia LOVV overalive culterit					μΑ
ai S	te output OFF-state current scent supply current sonal quiescent supply current sold LOW sustaining current sold HIGH sustaining current	leakage current $\begin{aligned} & V_{CC} = 2.3 \text{ to } 3.6 \text{V}; \\ & V_{I} = V_{CC} \text{ or GND} \end{aligned}$ the output OFF-state current $\begin{aligned} & V_{CC} = 2.3 \text{ to } 3.6 \text{V}; \\ & V_{CC} = 2.3 \text{ to } 3.6 \text{V}; \\ & V_{O} = V_{CC} \text{ or GND} \end{aligned}$ scent supply current $\begin{aligned} & V_{CC} = 2.3 \text{ to } 3.6 \text{V}; \\ & V_{I} = V_{CC} \text{ or GND}; \\ & I_{O} = 0 \end{aligned}$ soll quiescent supply current $\begin{aligned} & V_{CC} = 2.3 \text{ Vo } 3.6 \text{V}; \\ & V_{I} = V_{CC} \text{ or GND}; \\ & I_{O} = 0 \end{aligned}$ soll LOW sustaining current $\begin{aligned} & V_{CC} = 2.3 \text{V}; \\ & V_{CC} = 2.3 \text{V}; \\ & V_{I} = 0.7 \text{V} \end{aligned}$ soll HIGH sustaining current $\begin{aligned} & V_{CC} = 2.3 \text{V}; \\ & V_{CC} = 3.0 \text{V}; \\ & V_{I} = 1.7 \text{V} \end{aligned}$ soll HIGH sustaining current $\begin{aligned} & V_{CC} = 2.3 \text{V}; \\ & V_{CC} = 2.3 \text{V}; \\ & V_{I} = 1.7 \text{V} \end{aligned}$	leakage current $ \begin{array}{c} V_{CC} = 2.3 \text{ to } 3.6 \text{V}; \\ V_{I} = V_{CC} \text{ or GND} \end{array} $ the output OFF-state current $ \begin{array}{c} V_{CC} = 2.3 \text{ to } 3.6 \text{V}; \\ V_{O} = V_{CC} \text{ or GND} \end{array} $ where the output OFF-state current $ \begin{array}{c} V_{CC} = 2.3 \text{ to } 3.6 \text{V}; \\ V_{O} = V_{CC} \text{ or GND} \end{array} $ where the output OFF-state current $ \begin{array}{c} V_{CC} = 2.3 \text{ to } 3.6 \text{V}; \\ V_{CC} = 2.3 \text{ to } 3.6 \text{V}; \\ V_{I} = V_{CC} \text{ or GND}; \\ I_{O} = 0 \end{array} $ and the output OFF-state current $ \begin{array}{c} V_{CC} = 2.3 \text{ to } 3.6 \text{V}; \\ V_{CC} = 2.3 \text{ to } 3.6 \text{V}; \\ V_{I} = V_{CC} \text{ or GND}; \\ I_{O} = 0 \end{array} $ and the output OFF-state current $ \begin{array}{c} V_{CC} = 2.3 \text{ to } 3.6 \text{V}; \\ V_{CC} = 2.3 \text{V}; \\ V_{I} = 0.7 \text{V} \\ V_{CC} = 3.0 \text{V}; \\ V_{I} = 0.8 \text{V} \end{array} $ 45 and the output OFF-state current $ \begin{array}{c} V_{CC} = 2.3 \text{V}; \\ V_{CC} = 3.0 \text{V}; \\ V_{I} = 0.8 \text{V} \end{array} $ 75 and the output OFF-state current $ \begin{array}{c} V_{CC} = 2.3 \text{V}; \\ V_{CC} = 3.0 \text{V}; \\ V_{I} = 1.7 \text{V} \\ V_{CC} = 3.0 \text{V}; \\ V_{I} = 2.0 \text{V} \end{array} $ 75 and the output OFF-state current $ \begin{array}{c} V_{CC} = 2.3 \text{V}; \\ V_{CC} = 3.0 \text{V}; \\ V_{I} = 2.0 \text{V} \end{array} $ 75 and the output OFF-state current $ \begin{array}{c} V_{CC} = 2.3 \text{V}; \\ V_{CC} = 3.0 \text{V}; \\ V_{I} = 2.0 \text{V} \end{array} $ 75 and the output OFF-state current $ \begin{array}{c} V_{CC} = 3.6 \text{V} \\ V_{CC} = 3.6 \text{V} \end{array} $ 75 and the output OFF-state current $ \begin{array}{c} V_{CC} = 3.6 \text{V} \\ V_{CC} = 3.6 \text{V} \end{array} $ 75 and the output OFF-state current $ \begin{array}{c} V_{CC} = 3.6 \text{V} \\ V_{CC} = 3.6 \text{V} \end{array} $ 75 and the output OFF-state current $ \begin{array}{c} V_{CC} = 3.6 \text{V} \\ V_{CC} = 3.6 \text{V} \end{aligned} $ 75 and the output OFF-state current $ \begin{array}{c} V_{CC} = 3.6 \text{V} \\ V_{CC} = 3.6 \text{V} \end{aligned} $ 75 and the output OFF-state current $ \begin{array}{c} V_{CC} = 3.6 \text{V} \\ V_{CC} = 3.6 \text{V} \end{aligned} $ 75 and the output OFF-state current $ \begin{array}{c} V_{CC} = 3.6 \text{V} \\ V_{CC} = 3.6 \text{V} \end{aligned} $ 75 and the output OFF-state current $ \begin{array}{c} V_{CC} = 3.6 \text{V} \\ V_{CC} = 3.6 \text{V} \end{aligned} $ 75 and the output OFF-state current $ \begin{array}{c} V_{CC} = 3.6 \text{V} \\ V_{CC} = 3.6 \text{V} \end{aligned} $ 75 and the output OFF-state current $ \begin{array}{c} V_{CC} = 3.6 \text{V} \\ V_{CC} =$	Leakage current V_{CC} = 2.3 to 3.6V; V_{I} = V_{IH} \text{ or } V_{IL}; V_{O} = V_{CC} \text{ or GND}	Leakage current V _{CC} = 2.3 to 3.6V; V _I = V _{IH} or V _{IL} ; 0.1 10 10 10 10 10 10 1

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

20-bit buffer/line driver, non-inverting (3-State)

74ALVCH16827

AC CHARACTERISTICS FOR $V_{CC} = 2.3V$ TO 2.7V RANGE

 $GND = 0V; \ t_r = t_f \leq 2.0ns; \ C_L = 30pF$

SYMBOL	PARAMETER	WAVEFORM	V	UNIT		
			MIN	TYP ¹	MAX	
t _{PHL} /t _{PLH}	Propagation delay nAn to nYn	1, 3	1.0	2.0	4.1	ns
t _{PZH} /t _{PZL}	3-State output enable time nOEn to nYn	2, 3	1.0	2.9	6.0	ns
t _{PHZ} /t _{PLZ}	3-State output disable time nOEn to nYn	2,3	1.2	2.1	5.6	ns

NOTE:

AC CHARACTERISTICS FOR V_{CC} = 3.0V TO 3.6V RANGE AND V_{CC} = 2.7V GND = 0V; t_r = t_f \leq 2.5ns; C_L = 50pF

SYMBOL	PARAMETER	WAVEFORM	V _C	$_{\text{C}}$ = 3.3 \pm 0.	3V		V _{CC} = 2.7V		UNIT
			MIN	TYP ^{1, 2}	MAX	MIN	TYP ¹	MAX	
t _{PHL} /t _{PLH}	Propagation delay nAn to nYn	1, 3	1.0	2.0	3.4	1.0	2.1	3.9	ns
t _{PZH} /t _{PZL}	3-State output enable time nOEn to nYn	2, 3	1.0	2.5	4.7	1.0	3.0	5.7	ns
t _{PHZ} /t _{PLZ}	3-State output disable time nOEn to nYn	2, 3	1.3	2.8	4.5	1.3	3.1	4.9	ns

^{1.} All typical values are at V_{CC} = 2.5V and T_{amb} = 25°C.

^{1.} All typical values are at V_{CC} T_{amb} = 25°C. 2. Typical value is measured at V_{CC} = 3.3V.

20-bit buffer/line driver, non-inverting (3-State)

74ALVCH16827

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

 $V_{M} = 0.5 V$

 $V_X = V_{OL} + 0.15V$

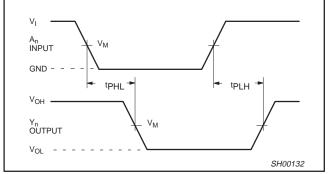
 $V_{Y} = V_{OH} - 0.15V$

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

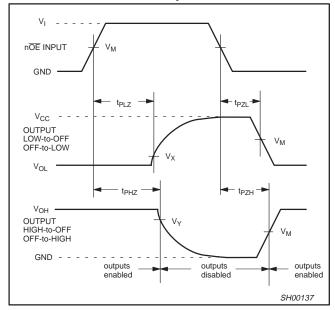
AC WAVEFORMS FOR $V_{CC} = 3.0V$ TO 3.6V AND $V_{CC} = 2.7V RANGE$

 V_M = 1.5 V V_X = V_{OL} + 0.3V V_Y = V_{OH} -0.3V V_{OL} and V_{OH} are the typical output voltage drop that occur with the output load. $V_1 = 2.7V$

' = V_{CC}

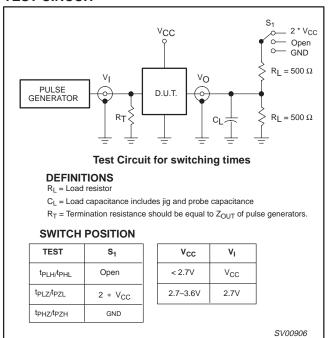


Waveform 1. The Input (nAx) to Output (nYx) Propagation **Delays**



Waveform 2. The 3-State Output Enable and Disable Times

TEST CIRCUIT



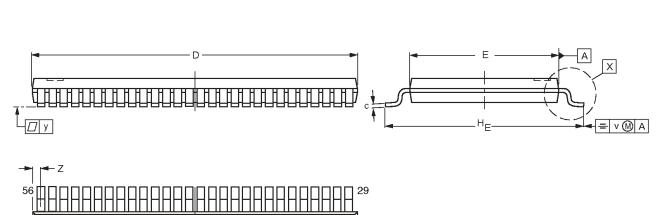
Waveform 3. Load circuitry for switching times

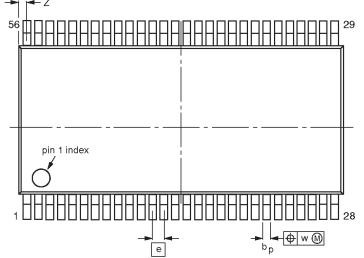
20-bit buffer/line driver, non-inverting (3-State)

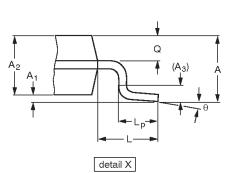
74ALVCH16827

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

SOT364-1









DIMENSIONS (mm are the original dimensions).

UNIT	A max.	A ₁	A ₂	A ₃	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		REFERENCES				EUROPEAN	ISSUE DATE	
VERSION	IEC	JEDEC	EIAJ			PROJECTION	ISSUE DATE	
SOT364-1		MO-153EE					-93-02-03- 95-02-10	

20-bit buffer/line driver, non-inverting (3-State)

74ALVCH16827

NOTES

20-bit buffer/line driver, non-inverting (3-State)

74ALVCH16827

Data sheet status

Data sheet status	Product status	Definition [1]
Objective specification	Development	This data sheet contains the design target or goal specifications for product development. Specification may change in any manner without notice.
Preliminary specification	Qualification	This data sheet contains preliminary data, and supplementary data will be published at a later date. Philips Semiconductors reserves the right to make chages at any time without notice in order to improve design and supply the best possible product.
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Definitions

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