74LV540A

Octal buffer/line driver; 3-state; inverting Rev. 1 — 24 November 2016

Product data sheet

General description 1.

The 74LV540A is an 8-bit inverting buffer/line driver with 3-state outputs. The device features two output enables (OE1 and OE2). A HIGH on OEn causes the associated outputs to assume a high-impedance OFF-state.

Inputs are overvoltage tolerant. This feature allows the use of these devices as translators in mixed voltage environments.

Schmitt-trigger action at all inputs makes the circuit tolerant of slower input rise and fall times.

This device is fully specified for partial power down applications using I_{OFF}. The I_{OFF} circuitry disables the output, preventing the potentially damaging backflow current through the device when it is powered down.

2. **Features and benefits**

- Wide supply voltage range from 2.0 V to 5.5 V
- Maximum t_{pd} of 6 ns at 5 V
- Typical $V_{OL(p)}$ < 0.8 V at V_{CC} = 3.3 V, T_{amb} = 25 °C
- Typical $V_{OH(v)} > 2.3 \text{ V}$ at $V_{CC} = 3.3 \text{ V}$, $T_{amb} = 25 \text{ °C}$
- Supports mixed-mode voltage operation on all ports
- I_{OFF} circuitry provides partial Power-down mode operation
- Latch-up performance exceeds 250 mA per JESD 78 Class II
- ESD protection:
 - ♦ HBM ANSI/ESDA/JEDEC JS-001 Class 2 exceeds 3 kV
 - MM JESD22-A115-A exceeds 150 V
 - CDM JESD22-C101E exceeds 2 kV
- Specified from -40 °C to +85 °C and from -40 °C to +125 °C



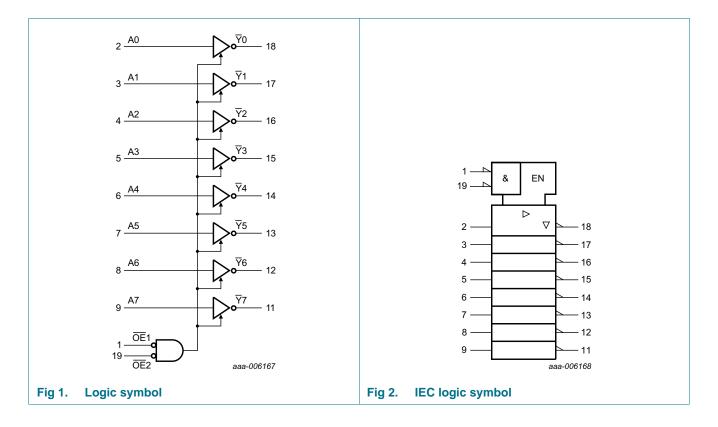
Octal buffer/line driver; 3-state; inverting

3. Ordering information

Table 1. Ordering information

Type number	Package	Package							
	Temperature range	Name	Description	Version					
74LV540APW	−40 °C to +125 °C	TSSOP20	plastic thin shrink small outline package; 20 leads; body width 4.4 mm	SOT360-1					

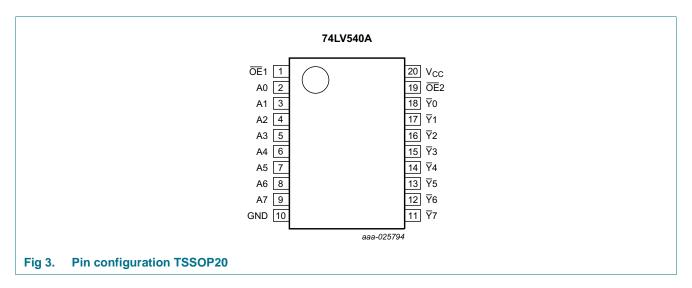
4. Functional diagram



Octal buffer/line driver; 3-state; inverting

5. Pinning information

5.1 Pinning



5.2 Pin description

Table 2. Pin description

Symbol	Pin	Description
OE1	1	output enable input (active LOW)
A0 to A7	2, 3, 4, 5, 6, 7, 8, 9	data input
GND	10	ground (0 V)
\overline{Y} 0 to \overline{Y} 7	18, 17, 16, 15, 14, 13, 12, 11	data output
OE2	19	output enable input (active LOW)
Vcc	20	supply voltage

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6. Functional description

Table 3. Functional table[1]

Control		Input	Output	
OE1	OE2	An	Yn	
L	L	L	Н	
L	L	Н	L	
X	Н	X	Z	
Н	X	X	Z	

^[1] H = HIGH voltage level; L = LOW voltage level; X = don't care; Z = high-impedance OFF-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 _{CC}	supply voltage		-0.5	+7.0	V
VI	input voltage	[1]	-0.5	+7.0	V
Vo	output voltage	active mode [2][3]	-0.5	V _{CC} + 0.5	V
		power-down or 3-state mode [2]	-0.5	+7.0	V
I _{IK}	input clamping current	V _I < 0 V	-20	-	mA
I _{OK}	output clamping current	V _O < 0 V	-50	-	mA
Io	output current	$V_O = 0 V \text{ to } V_{CC}$	-	±35	mA
I _{CC}	supply current		-	70	mA
I _{GND}	ground current		-70	-	mA
T _{stg}	storage temperature		-65	+150	°C
P _{tot}	total power dissipation	$T_{amb} = -40 ^{\circ}\text{C to } +125 ^{\circ}\text{C}$	-	500	mW

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

^[2] The output voltage ratings may be exceeded if the output current ratings are observed.

^[3] This value is limited to 7.0 V maximum.

^[4] For TSSOP20 package: above 100 $^{\circ}$ C the value of P_{tot} derates linearly with 10 mW/K.

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8. Recommended operating conditions

Table 5. Recommended operating conditions

Voltages are referenced to GND (ground = 0 V).

Symbol	Parameter	Conditions	Min	Max	Unit
V _{CC}	supply voltage		2.0	5.5	V
VI	input voltage		0	5.5	V
Vo	output voltage	active mode	0	V _{CC}	V
		power-down or 3-state mode	0	5.5	V
T _{amb}	ambient temperature		-40	+125	°C
Δt/ΔV	input transition rise and fall rate	V _{CC} = 2.3 V to 2.7 V	-	200	ns/V
		V _{CC} = 3.0 V to 3.6 V	-	100	ns/V
		V _{CC} = 4.5 V to 5.5 V	-	20	ns/V

9. Static characteristics

Table 6. Static characteristics

Voltages are referenced to GND (ground = 0 V).

Symbol	Parameter	Conditions		25 °C		-40 °C to	+85 °C	-40 °C to +125 °C		Unit
			Min	Тур	Max	Min	Max	Min	Max	
V _{IH}	HIGH-level	V _{CC} = 2 V	1.5	-	-	1.5	-	1.5	-	V
	input voltage	V _{CC} = 2.3 V to 2.7 V	0.7V _{CC}	-	-	0.7V _{CC}	-	0.7V _{CC}	-	V
		V _{CC} = 3.0 V to 3.6 V	0.7V _{CC}	-	-	0.7V _{CC}	-	0.7V _{CC}	-	V
		V _{CC} = 4.5 V to 5.5 V	0.7V _{CC}	-	-	0.7V _{CC}	-	0.7V _{CC}	-	V
V_{IL}	LOW-level	V _{CC} = 2 V	-	-	0.5	-	0.5	-	0.5	V
	input voltage	V _{CC} = 2.3 V to 2.7 V	-	-	0.3V _{CC}	-	0.3V _{CC}	-	0.3V _{CC}	V
		V _{CC} = 3.0 V to 3.6 V	-	-	0.3V _{CC}	-	0.3V _{CC}	-	0.3V _{CC}	V
		V _{CC} = 4.5 V to 5.5 V	-	-	0.3V _{CC}	-	0.3V _{CC}	-	0.3V _{CC}	V
V_{OH}	HIGH-level	$V_I = V_{IH}$ or V_{IL}								V
	output voltage	$V_{CC} = 2.0 \text{ V to } 5.5 \text{ V};$ $I_{O} = -50 \mu\text{A}$	V _{CC} -0.1	-	-	V _{CC} -0.1	-	V _{CC} -0.1	-	V
		$V_{CC} = 2.3 \text{ V}; I_{O} = -2 \text{ mA}$	2	-	-	2	-	2	-	V
		$V_{CC} = 3.0 \text{ V}; I_{O} = -8 \text{ mA}$	2.58	-	-	2.48	-	2.48	-	V
		$V_{CC} = 4.5 \text{ V}; I_{O} = -16 \text{ mA}$	3.94	-	-	3.8	-	3.8	-	V
V _{OL}	LOW-level	$V_I = V_{IH}$ or V_{IL}								
	output voltage	$V_{CC} = 2.0 \text{ V to } 5.5 \text{ V};$ $I_{O} = 50 \mu\text{A}$	-	-	0.1	-	0.1	-	0.1	V
		$V_{CC} = 2.3 \text{ V}; I_{O} = 2 \text{ mA}$	-	-	0.4	-	0.4	-	0.4	V
		$V_{CC} = 3.0 \text{ V}; I_{O} = 8 \text{ mA}$	-	-	0.36	-	0.44	-	0.44	V
		$V_{CC} = 4.5 \text{ V}; I_{O} = 16 \text{ mA}$	-	-	0.44	-	0.55	-	0.55	V
I _{OZ}	OFF-state output current	$V_{CC} = 5.5 \text{ V}; V_I = V_{IH} \text{ or } V_{IL};$ $V_O = \text{GND to } 5.5 \text{ V}$	-	-	±0.25	-	±2.5	-	±2.5	μА

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Table 6. Static characteristics ...continued Voltages are referenced to GND (ground = 0 V).

Symbol	Parameter	Conditions	25 °C		-40 °C to +85 °C		-40 °C to +125 °C		Unit	
			Min	Тур	Max	Min	Max	Min	Max	
I _{OFF}	power-off leakage current	V_I or $V_O = GND$ to 5.5 V; $V_{CC} = 0$ V	-	-	0.5	-	5	-	5	μА
Iı	input leakage current	$V_I = V_{CC}$ or GND; $V_{CC} = 0$ V to 5.5 V	-	-	±0.1	-	±1	-	±1	μА
I _{CC}	supply current	$V_I = V_{CC}$ or GND; $I_O = 0$ A; $V_{CC} = 5.5$ V	-	-	2	-	20	-	20	μА

10. Dynamic characteristics

Table 7. Dynamic characteristics

GND = 0 V. For test circuit see Figure 6.

Symbol	Parameter	Conditions			25 °C		-40 °C	to +85 °C	-40 °C to +125 °C		Unit
				Min	Typ[1]	Max	Min	Max	Min	Max	
t _{pd}	propagation	An to Yn; see Figure 4	[2]								
	delay	V _{CC} = 2.3 V to 2.7 V									
		C _L = 15 pF		-	5.3	12	1	14.5	1	16	ns
		C _L = 50 pF		-	7.3	16.8	1	18.5	1	20	ns
		V _{CC} = 3.0 V to 3.6 V									
		C _L = 15 pF		-	4.0	7	1	8.5	1	9.5	ns
		C _L = 50 pF		-	5.6	10.5	1	12	1	13	ns
		V _{CC} = 4.5 V to 5.5 V									
		C _L = 15 pF		-	3.1	5	1	6	1	7	ns
		C _L = 50 pF		-	4.4	7	1	8	1	9	ns
t _{en}	enable time	OEn to Yn; see Figure 5	[2]								
		V _{CC} = 2.3 V to 2.7 V									
		C _L = 15 pF		-	6.1	17.4	1	21	1	22.5	ns
		C _L = 50 pF		-	8.1	22.2	1	25.5	1	27	ns
		V _{CC} = 3.0 V to 3.6 V									
		C _L = 15 pF		-	4.5	10.5	1	12.5	1	14	ns
		C _L = 50 pF		-	6.2	14	1	16	1	17.5	ns
		V _{CC} = 4.5 V to 5.5 V									
		C _L = 15 pF		-	3.4	7.2	1	8.5	1	9.1	ns
		C _L = 50 pF		-	4.7	9.2	1	10.5	1	11.5	ns

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 Table 7.
 Dynamic characteristics ...continued

GND = 0 V. For test circuit see Figure 6.

Symbol	Parameter	Conditions		25 °C		-40 °C 1	to +85 °C	–40 °C t	o +125 °C	Unit
			Min	Typ[1]	Max	Min	Max	Min	Max	
t _{dis}	disable time	OEn to Yn; see Figure 5								
		V _{CC} = 2.3 V to 2.7 V								
		C _L = 15 pF	-	6.5	16	1	19	1	20	ns
		C _L = 50 pF	-	11.0	22.3	1	25.5	1	26.5	ns
		V _{CC} = 3.0 V to 3.6 V								
		C _L = 15 pF	-	5.2	10.5	1	12.5	1	13.5	ns
		C _L = 50 pF	-	8.5	15.4	1	17.5	1	18.5	ns
		V _{CC} = 4.5 V to 5.5 V								
		C _L = 15 pF	-	4.2	7	1	8	1	9	ns
		C _L = 50 pF	-	6.3	8.8	1	10	1	11	ns
t _{sk(o)}	skew	C _L = 50 pF								
		V _{CC} = 2.3 V to 2.7 V	-	-	2	-	2	-	3	ns
		V _{CC} = 3.0 V to 3.6 V	-	-	1.5	-	1.5	-	2	ns
		V _{CC} = 4.5 V to 5.5 V	-	-	1	-	1	-	1.5	ns
Cı	input capacitance	$V_I = V_{CC}$ or GND; $V_{CC} = 3.3 \text{ V}$	-	2	6	-	6	-	6	pF
Co	output capacitance	$V_O = V_{CC}$ or GND; $V_{CC} = 3.3 \text{ V}$	-	5	-	-	-	-	-	pF
C_{PD}	power dissipation	per buffer; V_I = GND to V_{CC} ; [3] C_L = 50 pF; f = 10 MHz								
	capacitance	V _{CC} = 3.3 V	-	9	-	-	-	-	-	pF
		V _{CC} = 5.0 V	-	11	-	-	-	-	-	pF

- [1] Typical values are measured at T_{amb} = 25 °C and V_{CC} = 2.5 V, 3.3 V, and 5 V respectively, unless otherwise specified.
- [2] t_{pd} is the same as t_{PLH} and t_{PHL} .
 - t_{en} is the same as t_{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 (μW).
 - $P_D = C_{PD} \times V_{CC}^2 \times f_i + \sum{(C_L \times V_{CC}^2 \times f_o)}$ 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.

Octal buffer/line driver; 3-state; inverting

Table 8. Noise characteristics

GND = 0 V. For test circuit see <u>Figure 6</u>.

Symbol	Parameter	Conditions	Т	T _{amb} = 25 °C			
				Тур	Max		
$V_{CC} = 3.3$	V; C _L = 50 pF		,			'	
$V_{OL(p)}$	LOW-level output voltage (peak)		-	0.3	0.8	V	
$V_{OL(v)}$	LOW-level output voltage (valley)		-0.8	-0.2	-	V	
$V_{OH(v)}$	HIGH-level output voltage (valley)		-	2.9	-	V	
V _{IH(AC)}	AC HIGH-level input voltage		2.31	-	-	V	
V _{IL(AC)}	AC LOW-level input voltage		-	-	0.99	V	

11. Waveforms

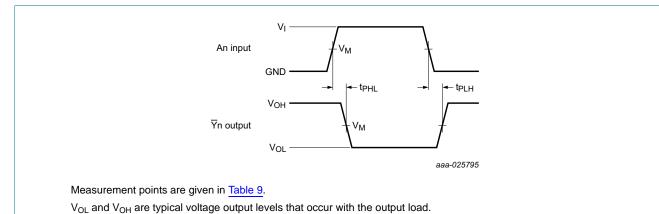
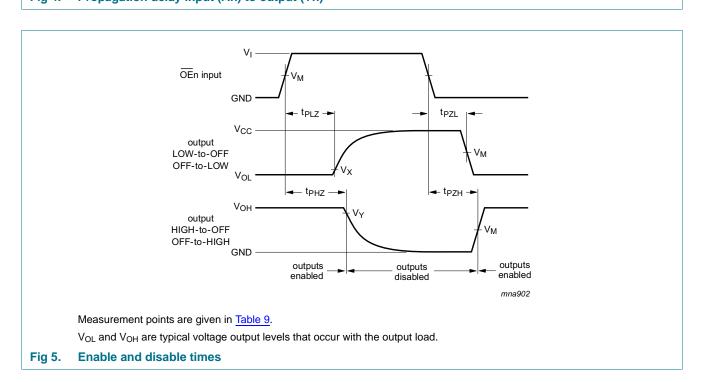


Fig 4. Propagation delay input (An) to output (Yn)

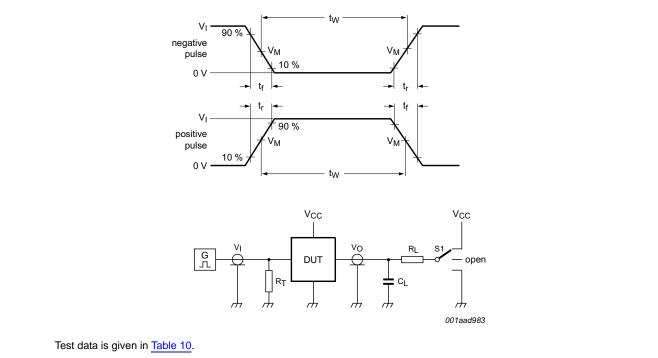


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Table 9. Measurement points

Input	Output						
V _M	V _M	V _X	V _Y				
0.5V _{CC}	0.5V _{CC}	V _{OL} + 0.3 V	V _{OH} – 0.3 V				



Definitions test circuit:

 R_T = Termination resistance should be equal to output impedance Z_0 of the pulse generator

 C_L = Load capacitance including jig and probe capacitance

R_L = Load resistor

S1 = Test selection switch

Fig 6. Test circuit for measuring switching times

Table 10. Test data

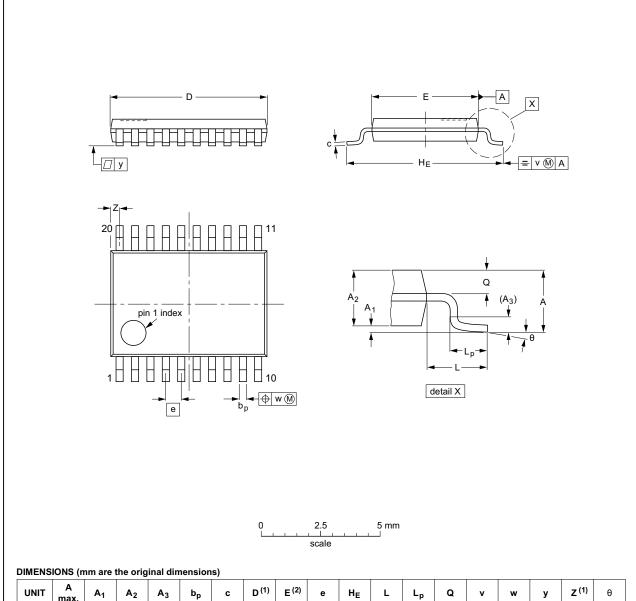
Input		Load		S1 position			
V_{I}	t _r , t _f C _L R _L		R_L	t _{PHL} , t _{PLH} t _{PZH} , t _{PHZ} t _{PZL} , t _{PLZ}			
GND to V_{CC}	3.0 ns	15 pF, 50 pF	1 kΩ	open	GND	V _{CC}	

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12. Package outline

TSSOP20: plastic thin shrink small outline package; 20 leads; body width 4.4 mm

SOT360-1



UNIT	A max.	A ₁	A ₂	A ₃	bp	С	D ⁽¹⁾	E (2)	е	HE	L	Lp	Q	٧	w	у	Z ⁽¹⁾	θ
mm	1.1	0.15 0.05	0.95 0.80	0.25	0.30 0.19	0.2 0.1	6.6 6.4	4.5 4.3	0.65	6.6 6.2	1	0.75 0.50	0.4 0.3	0.2	0.13	0.1	0.5 0.2	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	F	EUROPEAN	ISSUE DATE			
VERSION	IEC JEDEC	JEITA		PROJECTION	ISSUE DATE	
SOT360-1	MO-153				99-12-27 03-02-19	
001000-1	WO-100			9		

Fig 7. Package outline SOT360-1 (TSSOP20)

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13. Abbreviations

Table 11. Abbreviations

Acronym	Description			
CDM	Charge Device Model			
DUT	Device Under Test			
ESD	ElectroStatic Discharge			
НВМ	Human Body Model			
MM	Machine Model			

14. Revision history

Table 12. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
74LV540A v.1	20161124	Product data sheet	-	-

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15. Legal information

15.1 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.					
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- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов:
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001:
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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