Product data sheet

1. General description

The 74LV540A is an 8-bit inverting buffer/line driver with 3-state outputs. The device features two output enables ($\overline{OE1}$ and $\overline{OE2}$). A HIGH on \overline{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

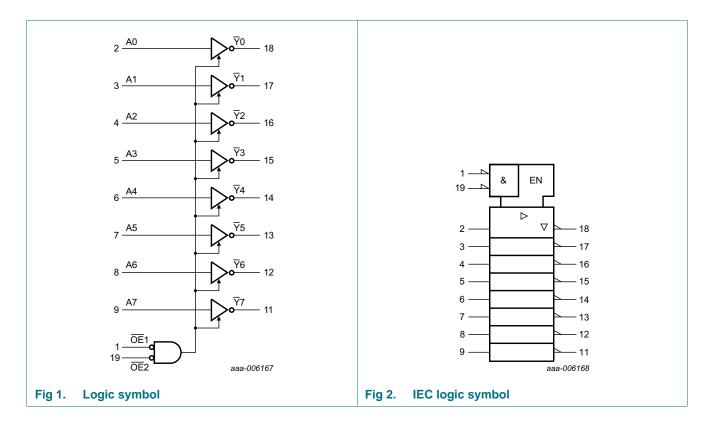
- Wide supply voltage range from 2.0 V to 5.5 V
- Maximum t_{pd} of 6 ns at 5 V
- Typical V_{OL(p)} < 0.8 V at V_{CC} = 3.3 V, T_{amb} = 25 °C
- Typical V_{OH(v)} > 2.3 V at V_{CC} = 3.3 V, T_{amb} = 25 °C
- Supports mixed-mode voltage operation on all ports
- I_{OFF} circuitry provides partial Power-down 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

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3. Ordering information

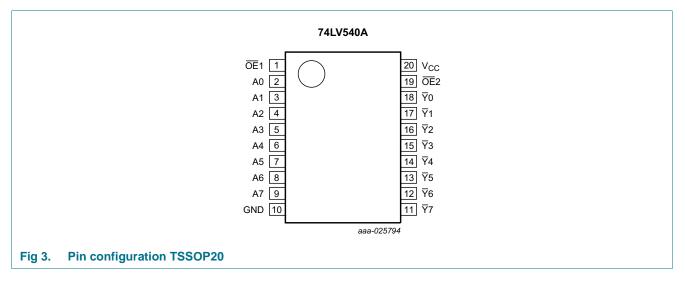
Table 1. Ord	Table 1. Ordering information									
Type number	Type number Package									
	Temperature range	Name	Description	Version						
74LV540APW	–40 °C to +125 °C	TSSOP20	plastic thin shrink small outline package; 20 leads; body width 4.4 mm	SOT360-1						

4. Functional diagram



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)
V _{CC}	20	supply voltage

6. Functional description

Table 3. Functional table	<u>[1]</u>		
Control		Input	Output
OE1	OE2	An	Yn
L	L	L	Н
L	L	Н	L
Х	Н	Х	Z
Н	Х	Х	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		<u>[1]</u>	-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 ₁ < 0 V		-20	-	mA
I _{OK}	output clamping current	V _O < 0 V		-50	-	mA
I _O	output current	$V_{O} = 0 V$ 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	$T_{amb} = -40 \ ^{\circ}C \ to +125 \ ^{\circ}C$	<u>[4]</u>	-	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 °C the value of P_{tot} derates linearly with 10 mW/K.

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
$\Delta t / \Delta V$	input transition rise and fall rate	$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$	-	200	ns/V
		$V_{CC} = 3.0 \text{ V} \text{ to } 3.6 \text{ V}$	-	100	ns/V
		$V_{CC} = 4.5 \text{ V} \text{ to } 5.5 \text{ V}$	-	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	o +85 °C	–40 °C to	+125 °C	Unit
			Min	Тур	Max	Min	Max	Min	Max	1
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
		$V_{CC} = 3.0 \text{ V} \text{ to } 3.6 \text{ V}$	$0.7V_{CC}$	-	-	$0.7V_{CC}$	-	$0.7V_{CC}$	-	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
		$V_{CC} = 3.0 \text{ V} \text{ to } 3.6 \text{ V}$	-	-	$0.3V_{CC}$	-	$0.3V_{CC}$	-	$0.3V_{CC}$	V
		V_{CC} = 4.5 V to 5.5 V	-	-	$0.3V_{CC}$	-	$0.3V_{CC}$	-	$0.3V_{CC}$	V
V _{OH}	HIGH-level	$V_{I} = V_{IH} \text{ or } V_{IL}$								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
		$V_{CC} = 2.3 \text{ V}; \text{ I}_{O} = -2 \text{ mA}$	2	-	-	2	-	2	-	V
		$V_{CC} = 3.0 \text{ V}; \text{ I}_{O} = -8 \text{ mA}$	2.58	-	-	2.48	-	2.48	-	V
		$V_{CC} = 4.5 \text{ V}; \text{ I}_{O} = -16 \text{ mA}$	3.94	-	-	3.8	-	3.8	-	V
V _{OL}	LOW-level	$V_{I} = V_{IH} \text{ or } V_{IL}$								
	output voltage	$V_{CC} = 2.0 \text{ V to 5.5 V;}$ $I_O = 50 \ \mu\text{A}$	-	-	0.1	-	0.1	-	0.1	V
		$V_{CC} = 2.3 \text{ V}; I_0 = 2 \text{ mA}$	-	-	0.4	-	0.4	-	0.4	V
		$V_{CC} = 3.0 \text{ V}; \text{ I}_{O} = 8 \text{ mA}$	-	-	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	$\label{eq:V_CC} \begin{array}{l} V_{CC} = 5.5 \ V; \ V_{I} = V_{IH} \ \text{or} \ V_{IL}; \\ V_{O} = GND \ \text{to} \ 5.5 \ V \end{array}$	-	-	±0.25	-	±2.5	-	±2.5	μA

Octal buffer/line driver; 3-state; inverting

Table 6.Static characteristics ...continuedVoltages 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	$V_1 \text{ or } V_0 = \text{GND to } 5.5 \text{ V};$ $V_{CC} = 0 \text{ V}$	-	-	0.5	-	5	-	5	μA
I	input leakage current	$V_{I} = V_{CC} \text{ or GND};$ $V_{CC} = 0 \text{ V to 5.5 V}$	-	-	±0.1	-	±1	-	±1	μA
I _{CC}	supply current		-	-	2	-	20	-	20	μA

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 t	o +125 °C	Unit
				Min	Typ <mark>[1]</mark>	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
		$V_{CC} = 3.0 \text{ V} \text{ to } 3.6 \text{ V}$									
		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
		$V_{CC} = 3.0 \text{ V} \text{ to } 3.6 \text{ V}$									
		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
		$V_{CC} = 4.5 \text{ V} \text{ to } 5.5 \text{ V}$									
		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

Octal buffer/line driver; 3-state; inverting

Symbol	Parameter	Conditions		25 °C		-40 °C t	to +85 °C	–40 °C t	o +125 °C	Unit
			Min	Typ <mark>[1]</mark>	Мах	Min	Max	Min	Max	
t _{dis}	disable time	OEn to Yn; see Figure 5 [2]								
		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
	$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$									
		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
		$V_{CC} = 4.5 V \text{ to } 5.5 V$								
		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								
		$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$	-	-	2	-	2	-	3	ns
		$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$	-	-	1.5	-	1.5	-	2	ns
		$V_{CC} = 4.5 V \text{ to } 5.5 V$	-	-	1	-	1	-	1.5	ns
CI	input capacitance	$V_I = V_{CC}$ or GND; $V_{CC} = 3.3 V$	-	2	6	-	6	-	6	pF
Co	output capacitance	$V_O = V_{CC} \text{ or GND};$ $V_{CC} = 3.3 \text{ V}$	-	5	-	-	-	-	-	pF
C _{PD}	power dissipation	per buffer; $V_I = GND$ to V_{CC} ; [3] $C_L = 50 \text{ pF}$; f = 10 MHz								
	capacitance	V _{CC} = 3.3 V	-	9	-	-	-	-	-	pF
		V _{CC} = 5.0 V	-	11	-	-	-	-	-	pF

Table 7.Dynamic characteristics ... continuedGND = 0 V. For test circuit see Figure 6.

[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.

[3] C_{PD} is used to determine the dynamic power dissipation P_D (μ W).

 $P_D = C_{PD} \times V_{CC}^2 \times f_i + \sum (C_L \times V_{CC}^2 \times f_o)$ 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.

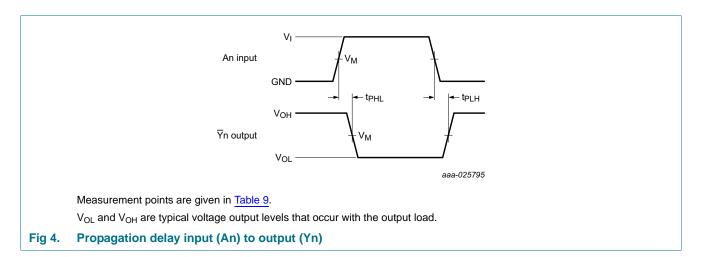
Octal buffer/line driver; 3-state; inverting

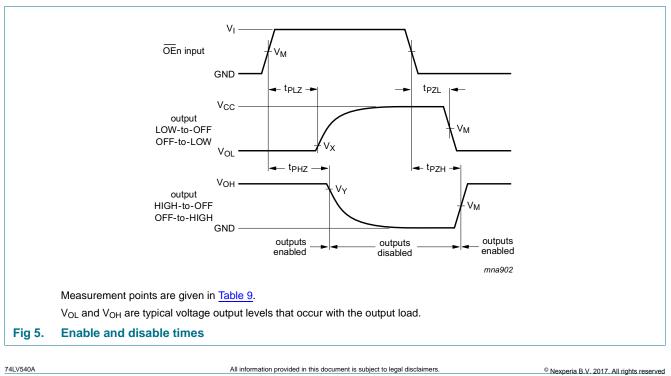
Table 8.Noise characteristics

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

Symbol	Parameter	Conditions	T,	T _{amb} = 25 ℃				
			Min	Тур	Max			
V _{CC} = 3.3	V; C _L = 50 pF		I					
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





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Input

Octal buffer/line driver; 3-state; inverting

V _M	V _M	V _X	V _Y
0.5V _{CC}	0.5V _{CC}	V _{OL} + 0.3 V	V _{OH} – 0.3 V
	- I		
	$\begin{array}{c c} & & & \\ 0 & \vee & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & &$	t_W V_M t_r	
			— open
Definitions $R_T = Term$ $C_L = Load$ $R_L = Load$	capacitance including jig and probe	b output impedance Z_0 of the pulse c capacitance	001aad983 Jenerator
	uit for measuring switching ti	mos	
ing o. rest circ	an for measuring switching th	1100	

Table 9. Measurement points

Output

Table 10. Test data

Input	Load		S1 position			
VI	t _r , t _f	CL	RL		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}

Octal buffer/line driver; 3-state; inverting

12. Package outline

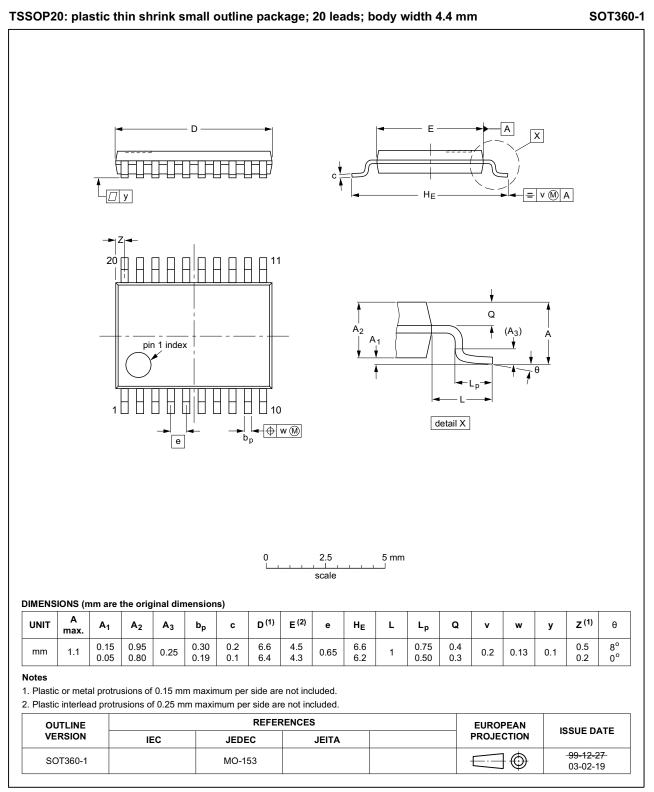


Fig 7. Package outline SOT360-1 (TSSOP20)

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13. Abbreviations

Table 11. Abbreviations		
Acronym	Description	
CDM	Charge Device Model	
DUT	Device Under Test	
ESD	ElectroStatic Discharge	
HBM	Human Body Model	
ММ	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	-	-

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.
Preliminary [short] data sheet	Qualification	This document contains data from the preliminary specification.
Product [short] data sheet	Production	This document contains the product specification.

[1] 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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Product data sheet

Octal buffer/line driver; 3-state; inverting

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16. Contact information

For more information, please visit: http://www.nexperia.com

For sales office addresses, please send an email to: salesaddresses@nexperia.com

Octal buffer/line driver; 3-state; inverting

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Общество с ограниченной ответственностью «МосЧип» ИНН 7719860671 / КПП 771901001 Адрес: 105318, г.Москва, ул.Щербаковская д.З, офис 1107

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Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж: moschip.ru moschip.ru_4

moschip.ru_6 moschip.ru_9