Octal Schmitt trigger buffer/line driver; 3-state; inverting Rev. 5 — 26 May 2016 Product data

Product data sheet

1. **General description**

The 74HC7540; 74HCT7540 is an 8-bit inverting buffer/line driver with Schmitt-trigger inputs and 3-state outputs. The device features two output enables (OE1 and OE2). A HIGH on OEn causes the outputs to assume a high-impedance OFF-state. Inputs include clamp diodes. This enables the use of current limiting resistors to interface inputs to voltages in excess of V_{CC}. Schmitt trigger inputs transform slowly changing input signals into sharply defined jitter-free output signals.

2. **Features and benefits**

- Input levels:
 - For 74HC7540: CMOS level
 - For 74HCT7540: TTL level
- Inverting outputs
- Low-power dissipation
- Complies with JEDEC standard no. 7 A
- Multiple package options
- ESD protection:
 - HBM JESD22-A114F exceeds 2000 V
 - MM JESD22-A115-A exceeds 200 V
- Specified from -40 °C to +85 °C and from -40 °C to +125 °C

Ordering information 3.

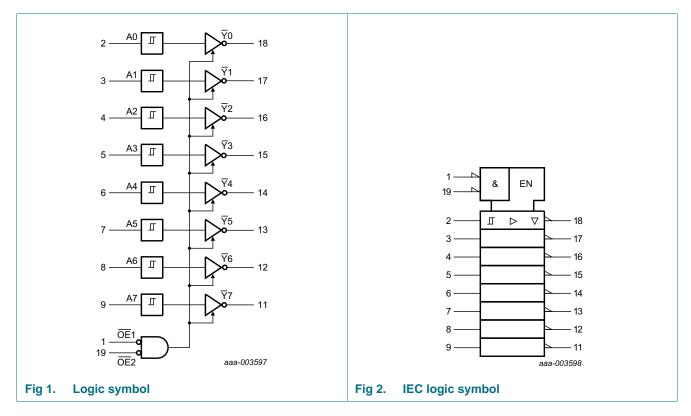
Table 1. **Ordering information**

Type number	Package									
	Temperature range	Name	Description	Version						
74HC7540D	–40 °C to +125 °C	SO20	plastic small outline package; 20 leads;	SOT163-1						
74HCT7540D			body width 7.5 mm							
74HC7540DB	–40 °C to +125 °C	SSOP20	plastic shrink small outline package; 20 leads; body width 5.3 mm	SOT339-1						

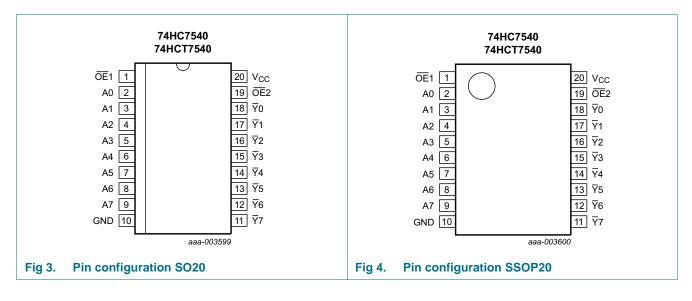
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Octal Schmitt trigger buffer/line driver; 3-state; inverting

4. Functional diagram



5. Pinning information



5.1 Pinning

Octal Schmitt trigger buffer/line driver; 3-state; inverting

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^[1]

Control			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	V
I _{IK}	input clamping current	V_{I} < -0.5 V or V_{I} > V_{CC} + 0.5 V	<u>[1]</u>	-	±20	mA
I _{OK}	output clamping current	$V_{\rm O}$ < –0.5 V or $V_{\rm O}$ > $V_{\rm CC}$ + 0.5 V	<u>[1]</u>	-	±20	mA
lo	output current	$-0.5 \text{ V} < \text{V}_{\text{O}} < \text{V}_{\text{CC}} + 0.5 \text{ V}$		-	±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	SO20, SSOP20	[2]	-	500	mW

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

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8. Recommended operating conditions

Table 5. Recommended operating conditions

Voltages are referenced to GND (ground = 0 V)

Symbol	Parameter	Conditions	74HC7540			74	Unit		
			Min	Тур	Max	Min	Тур	Max	
V _{CC}	supply voltage		2.0	5.0	6.0	4.5	5.0	5.5	V
VI	input voltage		0	-	V _{CC}	0	-	V _{CC}	V
Vo	output voltage		0	-	V _{CC}	0	-	V _{CC}	V
T _{amb}	ambient temperature		-40	+25	+125	-40	+25	+125	°C

9. Static characteristics

Table 6. Static characteristics

At recommended operating conditions; voltages are referenced to GND (ground = 0 V).

Symbol	Parameter	Conditions	T _{ar}	_{nb} = 25	°C		: –40 °C 85 °C		= –40 °C 125 °C	Unit
			Min	Тур	Max	Min	Max	Min	Max	
74HC75	40						·			
V _{OH}	HIGH-level	$V_I = V_{T+} \text{ or } V_{T-}$								
	output voltage	$I_0 = -20 \ \mu A; \ V_{CC} = 2.0 \ V$	1.9	2.0	-	1.9	-	1.9	-	V
		$I_0 = -20 \ \mu A; \ V_{CC} = 4.5 \ V$	4.4	4.5	-	4.4	-	4.4	-	V
		$I_0 = -20 \ \mu A; \ V_{CC} = 6.0 \ V$	5.9	6.0	-	5.9	-	5.9	-	V
		$I_{O} = -6.0 \text{ mA}; V_{CC} = 4.5 \text{ V}$	3.98	4.32	-	3.84	-	3.7	-	V
		$I_{O} = -7.8 \text{ mA}; V_{CC} = 6.0 \text{ V}$	5.48	5.81	-	5.34	-	5.2	-	V
V _{OL}	LOW-level	$V_{I} = V_{T+} \text{ or } V_{T-}$								
	output voltage	$I_0 = 20 \ \mu A; V_{CC} = 2.0 \ V$	-	0	0.1	-	0.1	-	0.1	V
		$I_0 = 20 \ \mu A; V_{CC} = 4.5 \ V$	-	0	0.1	-	0.1	-	0.1	V
		$I_0 = 20 \ \mu A; V_{CC} = 6.0 \ V$	-	0	0.1	-	0.1	-	0.1	V
		$I_0 = 6.0 \text{ mA}; V_{CC} = 4.5 \text{ V}$	-	0.15	0.26	-	0.33	-	0.4	V
		$I_0 = 7.8 \text{ mA}; V_{CC} = 6.0 \text{ V}$	-	0.16	0.26	-	0.33	-	0.4	V
lı	input leakage current	$V_{I} = V_{CC} \text{ or GND}; V_{CC} = 6.0 \text{ V}$	-	-	±0.1	-	±1.0	-	±1.0	μΑ
I _{OZ}	OFF-state output current	$V_{I} = V_{T+} \text{ or } V_{T-}; V_{CC} = 6.0 \text{ V};$ $V_{O} = V_{CC} \text{ or GND}$	-	-	±0.5	-	±5.0	-	±10	μΑ
I _{CC}	supply current	$V_I = V_{CC}$ or GND; $I_O = 0$ A; $V_{CC} = 6.0$ V	-	-	8.0	-	80	-	160	μΑ
CI	input capacitance		-	3.5	-	-	-	-	-	pF
74HCT7	4HCT7540									
V _{OH}	HIGH-level	$V_{I} = V_{T+} \text{ or } V_{T-}; V_{CC} = 4.5 \text{ V}$								
	output voltage	I _O = -20 μA	4.4	4.5	-	4.4	-	4.4	-	V
		I _O = -6.0 mA	3.98	4.32	-	3.84	-	3.7	-	V

Octal Schmitt trigger buffer/line driver; 3-state; inverting

Symbol	Parameter	Conditions	T _{amb} = 25 °C				= –40 °C 85 °C	T _{amb} = −40 °C to +125 °C		Unit
			Min	Тур	Max	Min	Max	Min	Max	
V _{OL}	LOW-level	$V_{I} = V_{T+}$ or V_{T-} ; $V_{CC} = 4.5 \text{ V}$								
	output voltage	I _O = 20 μA;	-	0	0.1	-	0.1	-	0.1	V
		I _O = 6.0 mA;	-	0.15	0.26	-	0.33	-	0.4	V
l _l	input leakage current	$V_{I} = V_{CC}$ or GND; $V_{CC} = 5.5$ V	-	-	±0.1	-	±1.0	-	±1.0	μA
I _{OZ}	OFF-state output current		-	-	±0.5	-	±5.0	-	±10	μA
I _{CC}	supply current	$V_I = V_{CC}$ or GND; $I_O = 0$ A; $V_{CC} = 5.5$ V	-	-	8.0	-	80	-	160	μA
ΔI _{CC}	additional supply current	per input pin; I _O = 0 A; V _I = V _{CC} - 2.1 V; other inputs at V _{CC} or GND; V _{CC} = 4.5 V to 5.5 V								
		An input	-	20	72	-	90	-	98	μA
		OEn input	-	130	468	-	585	-	637	μA
CI	input capacitance		-	3.5	-	-	-	-	-	pF

Table 6. Static characteristics ...continued

At recommended operating conditions; voltages are referenced to GND (ground = 0 V).

10. Dynamic characteristics

Table 7.Dynamic characteristics

 $GND = 0 V; C_L = 50 pF;$ for test circuit see <u>Figure 7</u>.

Symbol	Parameter	Conditions	Tai	_{nb} = 25	°C	T _{amb} = -40 °	°C to +125 °C	Unit
			Min	Тур	Max	Max (85 °C)	Max (125 °C)	
74HC754	40					1	1	
t _{pd}	propagation delay	An to \overline{Y} n; see Figure 5						
		V _{CC} = 2.0 V	-	39	120	150	180	ns
		V _{CC} = 4.5 V	-	14	24	30	36	ns
		V _{CC} = 5.0 V; C _L = 15 pF	-	11	-	-	-	ns
		V _{CC} = 6.0 V	-	11	20	26	31	ns
t _{en}	enable time	OEn to Yn; see Figure 6						
		V _{CC} = 2.0 V	-	41	150	190	225	ns
		V _{CC} = 4.5 V	-	15	30	38	45	ns
		V _{CC} = 6.0 V	-	12	26	33	38	ns
t _{dis}	disable time	OEn to Yn; see Figure 6						
		V _{CC} = 2.0 V	-	52	150	190	225	ns
		V _{CC} = 4.5 V	-	19	30	38	45	ns
		V _{CC} = 6.0 V	-	15	26	33	38	ns

Octal Schmitt trigger buffer/line driver; 3-state; inverting

Symbol	Parameter	Conditions		Tan	_{nb} = 25	°C	T _{amb} = -40 °	C to +125 °C	Unit
				Min	Тур	Max	Max (85 °C)	Max (125 °C)	
t _t	transition time	see Figure 5	[2]						
		V _{CC} = 2.0 V		-	14	60	75	90	ns
		V _{CC} = 4.5 V		-	5	12	15	18	ns
		V _{CC} = 6.0 V		-	4	10	13	15	ns
C _{PD}	power dissipation capacitance	per package; V _I = GND to V _{CC}	<u>[3]</u>	-	29	-	-	-	pF
74HCT7	540					1	1	1	1
t _{pd} p	propagation delay	An to Yn; see Figure 5	<u>[1]</u>						
		V _{CC} = 4.5 V		-	19	32	40	48	ns
		$V_{CC} = 5.0 \text{ V}; \text{ C}_{L} = 15 \text{ pF}$		-	16	-	-	-	ns
t _{en}	enable time	OEn to Yn; see Figure 6	<u>[1]</u>						
		V _{CC} = 4.5 V		-	19	32	40	48	ns
t _{dis}	disable time	OEn to Yn; see Figure 6	[1]						
		V _{CC} = 4.5 V		-	20	32	40	48	ns
t _t	transition time	V_{CC} = 4.5 V; see <u>Figure 5</u>	[2]	-	5	12	15	18	ns
C _{PD}	power dissipation capacitance	per package; V _I = GND to V _{CC} – 1.5 V	<u>[3]</u>	-	31	-	-	-	pF

Table 7.Dynamic characteristics

GND = 0 V; $C_L = 50$ pF; for test circuit see <u>Figure 7</u>.

t_{pd} is the same as t_{PLH} and t_{PHL}.
 t_{en} is the same as t_{PZL} and t_{PZH}.
 t_{dis} is the same as t_{PLZ} and t_{PHZ}.

[2] t_t is the same as t_{THL} and t_{TLH} .

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

 f_i = input frequency in MHz;

 $f_o = output$ frequency in MHz;

 C_L = output load capacitance in pF;

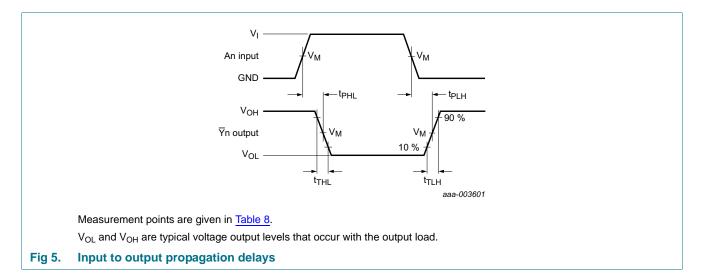
 V_{CC} = supply voltage in V;

N = number of inputs switching;

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

Octal Schmitt trigger buffer/line driver; 3-state; inverting

11. Waveforms



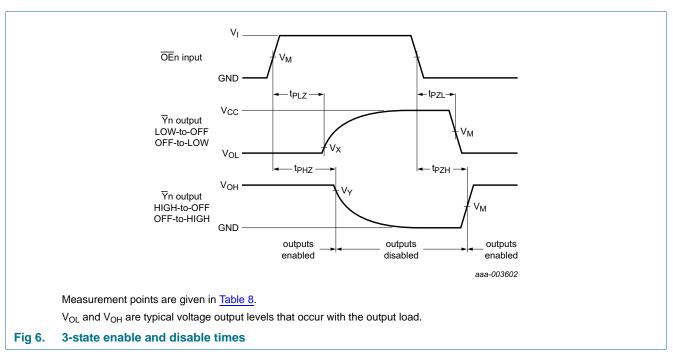


Table 8.Measurement points

Туре	Input	Output							
	V _M	V _M V _X V _Y							
74HC7540	0.5V _{CC}	0.5V _{CC}	0.1V _{CC}	0.9V _{CC}					
74HCT7540	1.3 V	1.3 V	0.1V _{CC}	0.9V _{CC}					

74HC_HCT7540
Product data sheet

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74HC7540; 74HCT7540

Octal Schmitt trigger buffer/line driver; 3-state; inverting

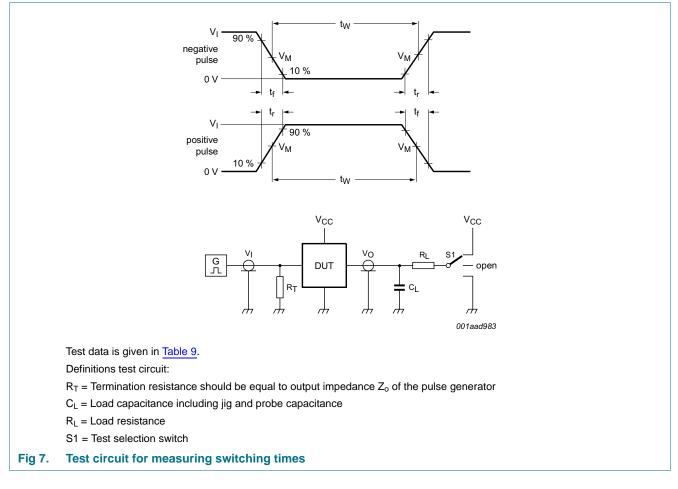


Table 9.Test data

Туре	Input		Load		S1 position			
	VI	t _r , t _f	C _L R _L		t _{PHL} , t _{PLH}	t _{PZH} , t _{PHZ}	t _{PZL} , t _{PLZ}	
74HC7540	V _{CC}	6 ns	15 pF, 50 pF	1 kΩ	open	GND	V _{CC}	
74HCT7540	3 V	6 ns	15 pF, 50 pF	1 kΩ	open	GND	V _{CC}	

Octal Schmitt trigger buffer/line driver; 3-state; inverting

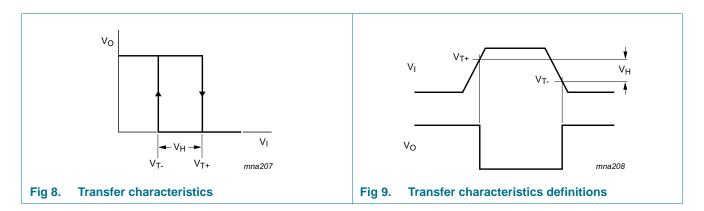
12. Transfer characteristics

Table 10. Transfer characteristics

At recommended operating conditions; voltages are referenced to GND (ground = 0 V); see Figure 8 and Figure 9.

Symbol	Parameter	Conditions	T _{ar}	_{nb} = 25	°C	T _{amb} = −40 °C to +85 °C		T _{amb} = −40 °C to +125 °C		Unit
			Min	Тур	Max	Min	Max	Min	Max	
74HC754	40	I		1	1			•	1	
V _{T+}	positive-going	V _{CC} = 2.0 V	-	-	1.5	-	1.5	-	1.5	V
	threshold	V _{CC} = 4.5 V	-	-	3.15	-	3.15	-	3.15	V
	voltage	V _{CC} = 6.0 V	-	-	4.2	-	4.2	-	4.2	V
V _{T-}	negative-going	V _{CC} = 2.0 V	0.3	-	-	0.3	-	0.3	-	V
	threshold	V _{CC} = 4.5 V	1.35	-	-	1.35	-	1.35	-	V
	voltage	V _{CC} = 6.0 V	1.8	-	-	1.8	-	1.8	-	V
V _H	hysteresis	V _{CC} = 2.0 V	0.1	0.20	-	0.1	-	0.1	-	V
	voltage	V _{CC} = 4.5 V	0.25	0.40	-	0.25	-	0.25	-	V
		V _{CC} = 6.0 V	0.3	0.5	-	0.3	-	0.3	-	V
74HCT7	540	l		1	1			•	1	_
V _{T+}	positive-going	V _{CC} = 4.5 V	-	-	2.0	-	2.0	-	2.0	V
	threshold voltage	V _{CC} = 5.5 V	-	-	2.1	-	2.1	-	2.1	V
V _{T-}	negative-going	V _{CC} = 4.5 V	0.7	-	-	0.64	-	0.6	-	V
	امام معمله ما ما	V _{CC} = 5.5 V	0.8	-	-	0.74	-	0.7	-	V
V _H	hysteresis	V _{CC} = 4.5 V	0.17	0.23	-	-	-	-	-	V
	voltage	V _{CC} = 5.5 V	0.17	0.23	-	-	-	-	-	V

13. Transfer characteristics waveforms



Octal Schmitt trigger buffer/line driver; 3-state; inverting

14. Package outline

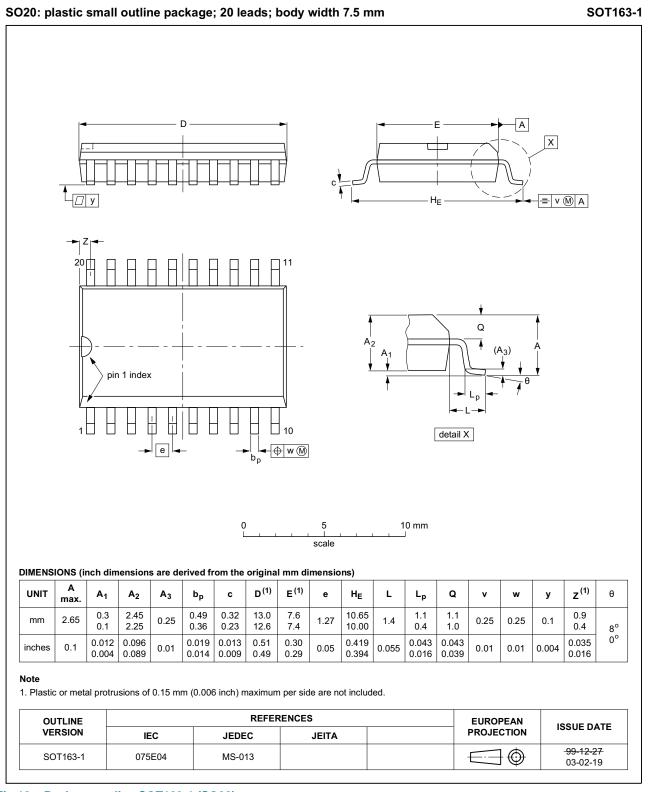


Fig 10. Package outline SOT163-1 (SO20)

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74HC_HCT7540

All info

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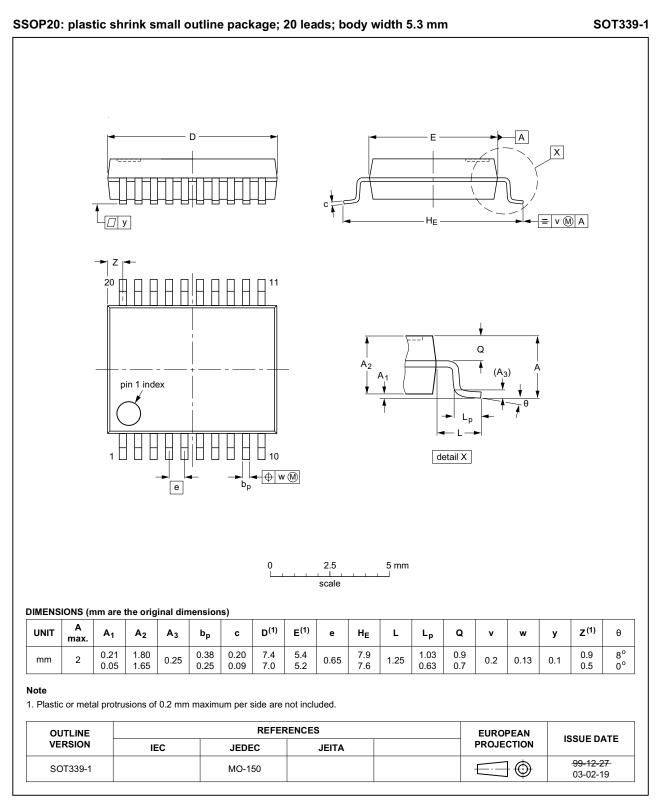


Fig 11. Package outline SOT339-1 (SSOP20)

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74HC_HCT7540

Octal Schmitt trigger buffer/line driver; 3-state; inverting

15. Abbreviations

Table 11. Abbreviations			
Acronym	Description		
CMOS	Complementary Metal-Oxide Semiconductor		
DUT	Device Under Test		
ESD	ElectroStatic Discharge		
НВМ	Human Body Model		
LSTTL	Low-power Schottky Transistor-Transistor Logic		
ММ	Machine Model		

16. Revision history

Table 12. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes	
74HC_HCT7540 v.5	20160526	Product data sheet	-	74HC_HCT7540 v.4	
Modifications:	Type numbers	s 74HC7540N and 74HCT7540	ON (SOT146-1) remo	oved.	
	• <u>Table 6</u> : cond	itions for OFF-state output cur	rent have changed.		
74HC_HCT7540 v.4	20121231	Product data sheet	-	74HC_HCT7540 v.3	
Modifications:	 I_{OZ} added to s 	static characteristics table.			
74HC_HCT7540 v.3	20120827	Product data sheet	-	74HC_HCT7540_CNV v.2	
Modifications:	 The format of this data sheet has been redesigned to comply with the new identity guidelines of NXP Semiconductors. 				
	 Legal texts have been adapted to the new company name where appropriate. 				
74HC_HCT7540_CNV v.2	19970917	Product specification	-	-	

Octal Schmitt trigger buffer/line driver; 3-state; inverting

17. Legal information

17.1 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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74HC7540; 74HCT7540

Octal Schmitt trigger buffer/line driver; 3-state; inverting

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