74HC240; 74HCT240

Octal buffer/line driver; 3-state; inverting Rev. 7 — 5 August 2024

Product data sheet

1. General description

The 74HC240; 74HCT240 is an 8-bit inverting buffer/line driver with 3-state outputs. The device can be used as two 4-bit buffers or one 8-bit buffer. The device features two output enables ($1\overline{OE}$ and $2\overline{OE}$), each controlling four of the 3-state outputs. A HIGH on $n\overline{OE}$ 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} .

2. Features and benefits

- Wide supply voltage range from 2.0 V to 6.0 V
- · CMOS low power dissipation
- · High noise immunity
- Latch-up performance exceeds 100 mA per JESD 78 Class II Level B
- · Complies with JEDEC standards:
 - JESD8C (2.7 V to 3.6 V)
 - JESD7A (2.0 V to 6.0 V)
- Input levels:
 - For 74HC240: CMOS level
 - For 74HCT240: TTL level
- Inverting 3-state outputs
- ESD protection:
 - HBM: ANSI/ESDA/JEDEC JS-001 class 2 exceeds 2000 V
 - CDM: ANSI/ESDA/JEDEC JS-002 class C3 exceeds 1000 V
- · Multiple package options
- Specified from -40 °C to +85 °C and from -40 °C to +125 °C

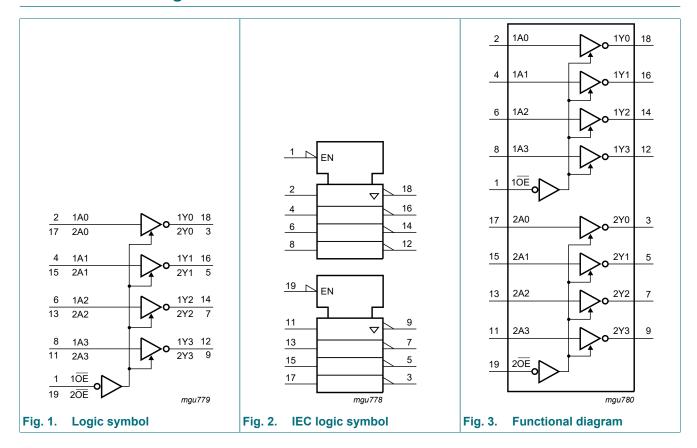
3. Ordering information

Table 1. Ordering information

Type number	Package	Package								
	Temperature range	Name	Description	Version						
74HC240D 74HCT240D	-40 °C to +125 °C	SO20	plastic small outline package; 20 leads; body width 7.5 mm	<u>SOT163-1</u>						
74HC240PW 74HCT240PW	-40 °C to +125 °C	TSSOP20	plastic thin shrink small outline package; 20 leads; body width 4.4 mm	SOT360-1						
74HC240BQ 74HCT240BQ	-40 °C to +125 °C	DHVQFN20	plastic dual in-line compatible thermal enhanced very thin quad flat package; no leads; 20 terminals; body 2.5 × 4.5 × 0.85 mm	SOT764-1						

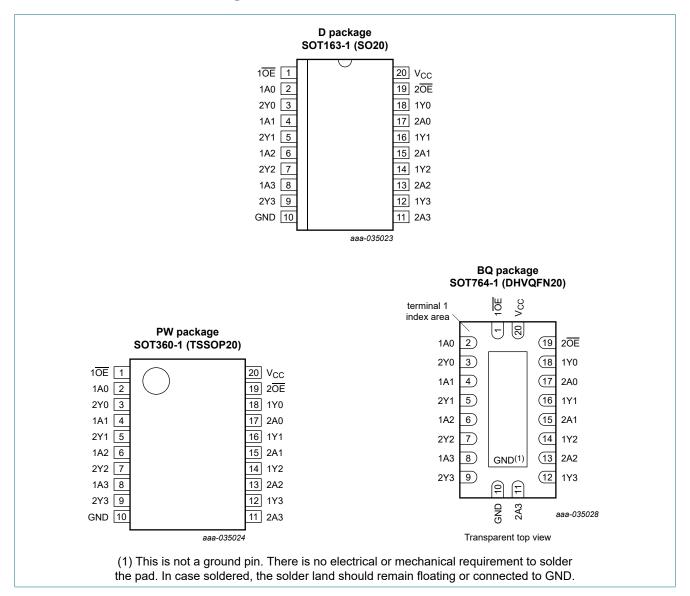


4. Functional diagram



5. Pinning information

5.1. Pinning



5.2. Pin description

Table 2. Pin description

Symbol	Pin	Description
1 OE , 2 OE	1, 19	output enable input (active LOW)
1A0, 1A1, 1A2, 1A3	2, 4, 6, 8	data input
2Y0, 2Y1, 2Y2, 2Y3	3, 5, 7, 9	bus output
GND	10	ground (0 V)
2A0, 2A1, 2A2, 2A3	17, 15, 13, 11	data input
1Y0, 1Y1, 1Y2, 1Y3	18, 16, 14, 12	bus output
V _{CC}	20	supply voltage

74HC_HCT240

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6. Functional description

Table 3. Function table

 $H = HIGH \text{ voltage level}; L = LOW \text{ voltage level}; X = don't care; Z = high-impedance OFF-state.}$

Input nOE		Output
nŌE	nAn	nYn
L	L	Н
L	Н	L
Н	X	Z

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	$V_{I} < -0.5 \text{ V or } V_{I} > V_{CC} + 0.5 \text{ V}$	-	±20	mA
I _{OK}	output clamping current	$V_{O} < -0.5 \text{ V or } V_{O} > V_{CC} + 0.5 \text{ V}$	-	±20	mA
Io	output current	-0.5 V < V _O < V _{CC} + 0.5 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	[1]	-	500	mW

^[1] For SOT163-1 (SO20) package: P_{tot} derates linearly with 12.3 mW/K above 109 °C. For SOT360-1 (TSSOP20) package: P_{tot} derates linearly with 10.0 mW/K above 100 °C. For SOT764-1 (DHVQFN20) package: P_{tot} derates linearly with 12.9 mW/K above 111 °C.

8. Recommended operating conditions

Table 5. Recommended operating conditions

Symbol	Parameter	Conditions		74HC240			74HCT240		
			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
Δt/ΔV	input transition rise and fall rate	V _{CC} = 2.0 V	-	-	625	-	-	-	ns/V
		V _{CC} = 4.5 V	-	1.67	139	-	1.67	139	ns/V
		V _{CC} = 6.0 V	-	-	83	-	-	-	ns/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		25 °C			°C to 5 °C		°C to 5 °C	Unit
			Min	Тур	Max	Min	Max	Min	Max	_
74HC24	0									
V _{IH}	HIGH-level	V _{CC} = 2.0 V	1.5	1.2	-	1.5	-	1.5	-	V
	input voltage	V _{CC} = 4.5 V	3.15	2.4	-	3.15	-	3.15	-	V
		V _{CC} = 6.0 V	4.2	3.2	-	4.2	-	4.2	-	V
V _{IL}	LOW-level input	V _{CC} = 2.0 V	-	8.0	0.5	-	0.5	-	0.5	V
	voltage	V _{CC} = 4.5 V	-	2.1	1.35	-	1.35	-	1.35	V
		V _{CC} = 6.0 V	-	2.8	1.8	-	1.8	-	1.8	V
V _{OH}	HIGH-level	V _I = V _{IH} or V _{IL}								
	output voltage	I_{O} = -20 μ A; V_{CC} = 2.0 V	1.9	2.0	-	1.9	-	1.9	-	V
		I _O = -20 μA; V _{CC} = 4.5 V	4.4	4.5	-	4.4	-	4.4	-	V
		I_{O} = -20 μ A; V_{CC} = 6.0 V	5.9	6.0	-	5.9	-	5.9	-	V
		I_{O} = -6.0 mA; V_{CC} = 4.5 V	3.98	4.32	-	3.84	-	3.7	-	V
		I_{O} = -7.8 mA; V_{CC} = 6.0 V	5.48	5.81	-	5.34	-	5.2	-	V
V _{OL}	LOW-level	V _I = V _{IH} or V _{IL}								
	output voltage	$I_{O} = 20 \mu A; V_{CC} = 2.0 V$	-	0	0.1	-	0.1	-	0.1	V
		$I_O = 20 \mu A; V_{CC} = 4.5 V$	-	0	0.1	-	0.1	-	0.1	V
		$I_O = 20 \mu A; V_{CC} = 6.0 V$	-	0	0.1	-	0.1	-	0.1	V
		I_{O} = 6.0 mA; V_{CC} = 4.5 V	-	0.15	0.26	-	0.33	-	0.4	V
		$I_O = 7.8 \text{ mA}; V_{CC} = 6.0 \text{ V}$	-	0.16	0.26	-	0.33	-	0.4	V
I _I	input leakage current	$V_I = V_{CC}$ or GND; $V_{CC} = 6.0 \text{ V}$	-	-	±0.1	-	±1.0	-	±1.0	μΑ
I _{OZ}	OFF-state output current	$V_I = V_{IH}$ or V_{IL} ; $V_{CC} = 6.0$ V; $V_O = V_{CC}$ 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
C _I	input capacitance		-	3.5	-	-	-	-	-	pF
74HCT2	40								•	
V _{IH}	HIGH-level input voltage	V _{CC} = 4.5 V to 5.5 V	2.0	1.6	-	2.0	-	2.0	-	V
V _{IL}	LOW-level input voltage	V _{CC} = 4.5 V to 5.5 V	-	1.2	0.8	-	0.8	-	0.8	V
V _{OH}	HIGH-level	$V_I = V_{IH}$ or V_{IL} ; $V_{CC} = 4.5 \text{ V}$								
	output voltage	I _O = -20 μA	4.4	4.5	-	4.4	-	4.4	-	V
		I _O = -6 mA	3.98	4.32	-	3.84	-	3.7	-	V
V _{OL}	LOW-level	$V_I = V_{IH}$ or V_{IL} ; $V_{CC} = 4.5 \text{ V}$								1
	output voltage	I _O = 20 μA	-	0	0.1	-	0.1	-	0.1	V
		I _O = 6.0 mA	-	0.16	0.26	-	0.33	-	0.4	V

Symbol	Parameter	Conditions	25 °C			-40 °C to +85 °C		-40 °C to +125 °C		Unit
			Min	Тур	Max	Min	Max	Min	Max	
II	input leakage current	$V_I = V_{CC}$ or GND; $V_{CC} = 5.5 \text{ V}$	-	-	±0.1	-	±1.0	-	±1.0	μA
l _{OZ}	OFF-state output current	$V_I = V_{IH}$ or V_{IL} ; $V_{CC} = 5.5$ V; $V_O = V_{CC}$ or GND	-	-	±0.5	-	±5.0	-	±10	μA
I _{CC}	supply current	$V_I = V_{CC}$ or GND; $V_{CC} = 5.5 \text{ V}$; $I_O = 0 \text{ A}$	-	-	8.0	-	80	-	160	μA
ΔI _{CC}	additional supply current	per input pin; $V_I = V_{CC} - 2.1 \text{ V}$; other inputs at V_{CC} or GND; $V_{CC} = 4.5 \text{ V}$ to 5.5 V ; $I_O = 0 \text{ A}$								
		nAn or inputs	-	150	540	-	675	-	735	μΑ
		n OE input	-	70	252	-	315	-	343	μΑ
Cı	input capacitance		-	3.5	-	-	-	-	-	pF

10. Dynamic characteristics

Table 7. Dynamic characteristics

GND = 0 V; for test circuit see Fig. 6.

Symbol	Parameter	Conditions			25 °C			°C to 5 °C	-40 °C to +125 °C		Unit
				Min	Тур	Max	Min	Max	Min	Max	
74HC24	0										
t _{pd}	propagation delay	nAn to nYn; see Fig. 4	[1]								
		V _{CC} = 2.0 V		-	30	100	-	125	-	150	ns
		V _{CC} = 4.5 V		-	11	20	-	25	-	30	ns
		V _{CC} = 5.0 V; C _L = 15 pF		-	9	-	-	-	-	-	ns
		V _{CC} = 6.0 V		-	9	17	-	21	-	26	ns
t _{en}	enable time	nOE to nYn; see Fig. 5	[2]								
		V _{CC} = 2.0 V		-	39	150	-	190	-	225	ns
		V _{CC} = 4.5 V		-	14	30	-	38	-	45	ns
		V _{CC} = 6.0 V		-	11	26	-	33	-	38	ns
t _{dis}	disable time	nOE to nYn or see Fig. 5	[3]								
		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 _t	transition time	see Fig. 4	[4]								
		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 buffer; V _I = GND to V _{CC}	[5]	-	30	-	-	-	-	-	pF

Symbol	Parameter	Conditions		25 °C			-40 °C to +85 °C		-40 °C to +125 °C	
			Mi	1 Тур	Max	Min	Max	Min	Max	
74HCT2	40			<u>'</u>	'					
t _{pd}	propagation delay	nAn to nYn; see Fig. 4 [1]							
		V _{CC} = 4.5 V	-	11	20	-	25	-	30	ns
		V _{CC} = 5.0 V; C _L = 15 pF	-	9	-	-	-	-	-	ns
t _{en}	enable time	$\overline{\text{NOE}}$ to nYn; V _{CC} = 4.5 V; [2 see Fig. 5]] -	13	30	-	38	-	45	ns
t _{dis}	disable time	\overline{OE} to nYn; V _{CC} = 4.5 V; [3 see Fig. 5]] -	13	25	-	31	-	38	ns
t _t	transition time	V _{CC} = 4.5 V; see <u>Fig. 4</u> [4] -	5	12	-	15	-	18	ns
C_{PD}	power dissipation capacitance	per buffer; $V_I = GND$ to V_{CC} - 1.5 V [5]] -	30	-	-	-	-	-	pF

- t_{pd} is the same as t_{PHL} and t_{PLH} .
- t_{en} is the same as t_{PZH} and t_{PZL} .
- t_{dis} is the same as t_{PHZ} and t_{PLZ} . [3]
- [4] t_t is the same as t_{THL} and t_{TLH}.
 [5] C_{PD} is used to determine the dynamic power dissipation (P_D in μW): P_D = C_{PD} × V_{CC} ² × f_i × N + Σ (C_L × V_{CC} ² × f_o) where:

f_i = input frequency in MHz;

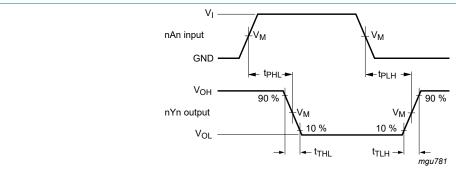
f_o = output frequency in MHz;

C_L = output load capacitance in pF;

V_{CC} = supply voltage in V;

N = number of inputs switching; $\Sigma (C_L \times V_{CC}^2 \times f_o) = \text{sum of outputs}.$

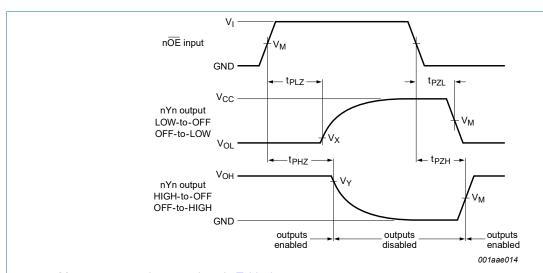
10.1. Waveforms and test circuit



Measurement points are given in Table 8.

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

Fig. 4. Input (nAn) to output (nYn) propagation delays and output transition times



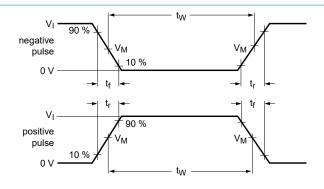
Measurement points are given in <u>Table 8</u>.

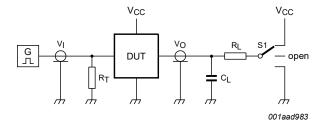
V_{OL} and V_{OH} are typical voltage output levels that occur with the output load.

Fig. 5. 3-state enable and disable times

Table 8. Measurement points

Туре	Input	Output					
	V _M	V _M	V _X	V_{Y}			
74HC240	0.5 × V _{CC}	0.5 × V _{CC}	0.1 × V _{CC}	0.9 × V _{CC}			
74HCT240	1.3 V	1.3 V	0.1 × V _{CC}	0.9 × V _{CC}			





Test data is given in Table 9.

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 resistance;

S1 = Test selection switch.

Fig. 6. Test circuit for measuring switching times

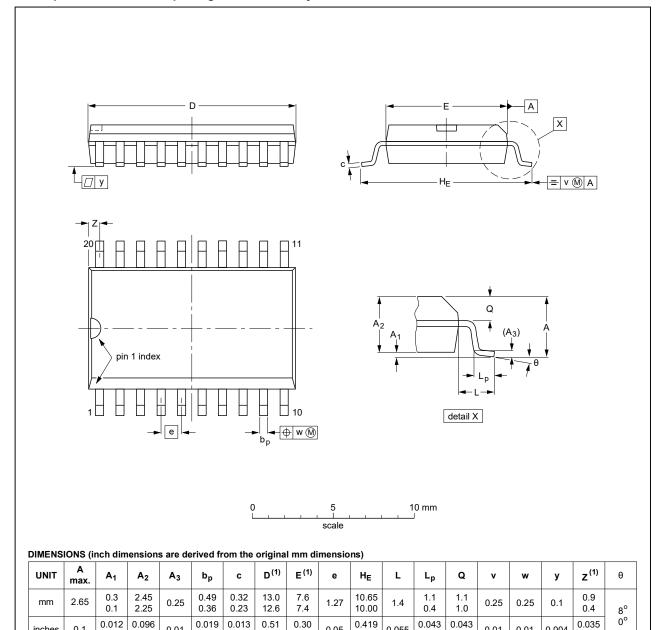
Table 9. Test data

Туре	Input		Load		S1 position			
	V _I	t _r , t _f	CL	R _L	t _{PHL} , t _{PLH}	t _{PZH} , t _{PHZ}	t _{PZL} , t _{PLZ}	
74HC240	V _{CC}	6 ns	15 pF, 50 pF	1 kΩ	open	GND	V _{CC}	
74HCT240	3 V	6 ns	15 pF, 50 pF	1 kΩ	open	GND	V _{CC}	

11. Package outline

SO20: plastic small outline package; 20 leads; body width 7.5 mm

SOT163-1



inches

1. Plastic or metal protrusions of 0.15 mm (0.006 inch) maximum per side are not included.

0.019

0.014

0.013

0.009

0.51

0.49

0.30

0.29

OUTLINE		REFER	EUROPEAN	ISSUE DATE		
VERSION	IEC	JEDEC	JEITA		PROJECTION	ISSUE DATE
SOT163-1	075E04	MS-013				99-12-27 03-02-19

0.05

0.419

0.394

0.055

0.043

0.016

0.043

0.039

0.01

0.01

0.016

Fig. 7. Package outline SOT163-1 (SO20)

0.012

0.004

0.096

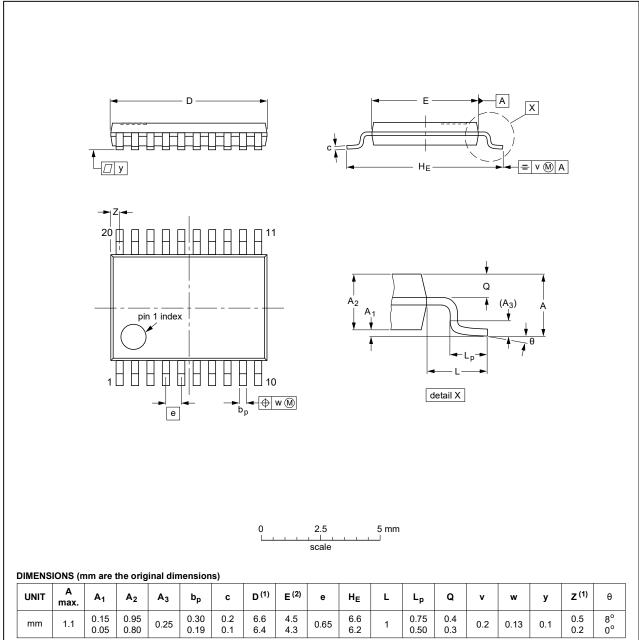
0.089

0.01

74HC_HCT240

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

SOT360-1



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	ENCES	EUROPEAN	ISSUE DATE
VERSION	IEC	JEDEC	JEITA	PROJECTION	ISSUE DATE
SOT360-1		MO-153			99-12-27 03-02-19

Fig. 8. Package outline SOT360-1 (TSSOP20)

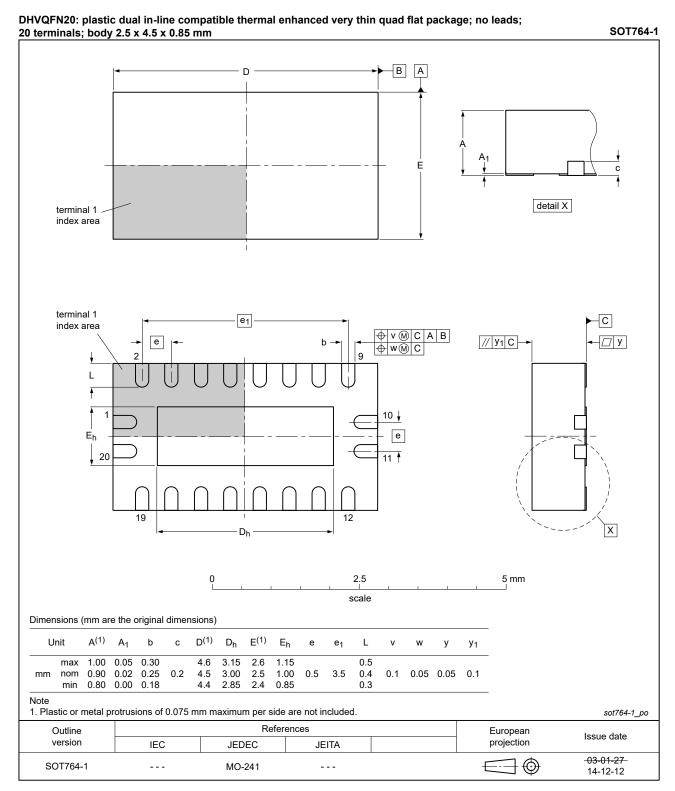


Fig. 9. Package outline SOT764-1 (DHVQFN20)

12. Abbreviations

Table 10. Abbreviations

Acronym	Description
ANSI	American National Standards Institute
CDM	Charged Device Model
CMOS	Complementary Metal Oxide Semiconductor
DUT	Device Under Test
ESD	ElectroStatic Discharge
ESDA	ElectroStatic Discharge Association
НВМ	Human Body Model
JEDEC	Joint Electron Device Engineering Council
TTL	Transistor-Transistor Logic

13. Revision history

Table 11. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
74HC_HCT240 v.7	20240805	Product data sheet	-	74HC_HCT240 v.6
Modifications:	Section 2: E	SD specification updated	according to the la	itest JEDEC standard.
74HC_HCT240 v.6	20210903	Product data sheet	-	74HC_HCT240 v.5
Modifications:	Type number	ers 74HC240DB and 74HC	T240DB (SOT339	9-1) removed.
74HC_HCT240 v.5	20200715	Product data sheet	-	74HC_HCT240 v.4
Modifications:	guidelines o Legal texts I Section 2 up	have been adapted to the i	new company nar	ne where appropriate.
74HC_HCT240 v.4	20160225	Product data sheet	-	74HC_HCT240 v.3
Modifications:	Type number	ers 74HC240N and 74HCT	240N (SOT146-1	removed.
74HC_HCT240 v.3	20070802	Product data sheet	-	74HC_HCT240_CNV v.2
Modifications:	guidelines o Legal texts	of this data sheet has beer of NXP Semiconductors. have been adapted to the number 74HC240BQ and	new company nar	ne where appropriate.
74HC_HCT240_CNV v.2	19970828	Product specification	-	-

14. Legal information

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.

- 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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