Octal buffer/line driver; inverting; 3-state Rev. 2 — 26 November 2010

Product data sheet

1. General description

The 74AHC240 and 74AHCT240 are 8-bit inverting buffer/line drivers with 3-state outputs. These devices can be used as two 4-bit buffers or one 8-bit buffer. They feature 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 are over voltage tolerant. This feature allows the use of these devices as translators in mixed voltage environments.

2. Features and benefits

- Balanced propagation delays
- All inputs have a Schmitt-trigger action
- Inputs accepts voltages higher than V_{CC}
- For 74AHC240 only: operates with CMOS input levels
- For 74AHCT240 only: operates with TTL input levels
- ESD protection:
 - HBM JESD22-A114F exceeds 2000 V
 - CDM JESD22-C101D 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

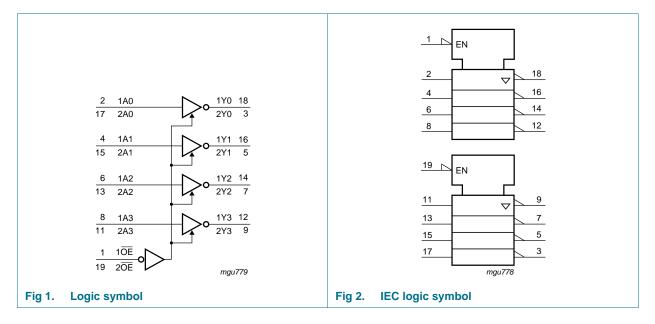
Type number	Package									
	Temperature range	Name	Description	Version						
74AHC240D	–40 °C to +125 °C	SO20	plastic small outline package; 20 leads;	SOT163-1						
74AHCT240D			body width 7.5 mm							
74AHC240PW	–40 °C to +125 °C	TSSOP20	plastic thin shrink small outline package; 20 leads;	SOT360-1						
74AHCT240PW			body width 4.4 mm							
74AHC240BQ	–40 °C to +125 °C	DHVQFN20	plastic dual in-line compatible thermal enhanced	SOT764-1						
74AHCT240BQ			very thin quad flat package; no leads; 20 terminals; body 2.5 \times 4.5 \times 0.85 mm							



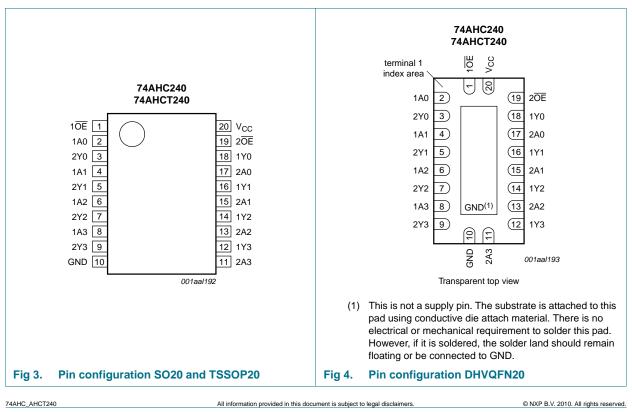


Octal buffer/line driver; inverting; 3-state

4. Functional diagram



5. Pinning information



5.1 Pinning

Product data sheet

Octal buffer/line driver; inverting; 3-state

5.2 Pin description

Symbol 10E 20E 1A0, 1A1, 1A2, 1	Pin 1 19	Description output enable input (active LOW) output seable input (active LOW)
2 <mark>0E</mark> 1A0, 1A1, 1A2, 1	•	
1A0, 1A1, 1A2, 1	19	autaut analyla insut (active I ONA)
		output enable input (active LOW)
240 241 242 (1A3 2, 4, 6, 8	data input
ZAU, ZAT, ZAZ, Z	2A3 17, 15, 13, 11	data input
1Y0, 1Y1, 1Y2, 1	1Y3 18, 16, 14, 12	data output
2Y0, 2Y1, 2Y2, 2	2Y3 3, 5, 7, 9	data output
GND	10	ground (0 V)
V _{CC}	20	power supply

6. Functional description

Table 3. Fund	tion table ^[1]	
Control	Input	Output
nOE	nAn	nYn
L	L	Н
L	Н	L
Н	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).

				.0	,
Symbol	Parameter	Conditions	Min	Max	Unit
V _{CC}	supply voltage		-0.5	+7.0	V
VI	input voltage		-0.5	+7.0	V
I _{IK}	input clamping current	V _I < -0.5 V	<u>[1]</u> –20	-	mA
I _{ОК}	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	V_{O} = -0.5 V to (V _{CC} + 0.5 V)	-	±25	mA
I _{CC}	supply current		-	75	mA
I _{GND}	ground current		-75	-	mA
T _{stg}	storage temperature		-65	+150	°C
P _{tot}	total power dissipation	$T_{amb} = -40 \text{ °C to } +125 \text{ °C}$	[2] _	500	mW

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

[2] For SO20 package: above 70 °C the value of P_{tot} derates linearly with 8.0 mW/K.

For TSSOP20 package: above 60 °C the value of P_{tot} derates linearly with 5.5 mW/K.

For DHVQFN20 package: above 60 $^\circ\text{C}$ the value of P_{tot} derates linearly with 4.5 mW/K.

Octal buffer/line driver; inverting; 3-state

8. Recommended operating conditions

Table 5.	Recommended	operating	conditions

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
74AHC24	0					
V _{CC}	supply voltage		2.0	5.0	5.5	V
VI	input voltage		0	-	5.5	V
Vo	output voltage		0	-	V _{CC}	V
T _{amb}	ambient temperature		-40	+25	+125	°C
$\Delta t / \Delta V$	input transition rise and fall rate	V_{CC} = 3.3 V \pm 0.3 V	-	-	100	ns/V
		V_{CC} = 5 V ± 0.5 V	-	-	20	ns/V
74AHCT2	40					
V _{CC}	supply voltage		4.5	5.0	5.5	V
VI	input voltage		0	-	5.5	V
Vo	output voltage		0	-	V _{CC}	V
T _{amb}	ambient temperature		-40	+25	+125	°C
$\Delta t / \Delta V$	input transition rise and fall rate	$V_{CC} = 5 V \pm 0.5 V$	-	-	20	ns/V

9. Static characteristics

Table 6. Static characteristics

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

Symbol	Parameter	Conditions		25 °C		−40 °C 1	to +85 °C	−40 °C t	o +125 °C	Unit
			Min	Тур	Max	Min	Max	Min	Max	
74AHC2	40	'								
V _{IH}	HIGH-level	V _{CC} = 2.0 V	1.5	-	-	1.5	-	1.5	-	V
	input voltage	V _{CC} = 3.0 V	2.1	-	-	2.1	-	2.1	-	V
		V _{CC} = 5.5 V	3.85	-	-	3.85	-	3.85	-	V
V _{IL}	LOW-level	V _{CC} = 2.0 V	-	-	0.5	-	0.5	-	0.5	V
	input voltage	V _{CC} = 3.0 V	-	-	0.9	-	0.9	-	0.9	V
		V _{CC} = 5.5 V	-	-	1.65	-	1.65	-	1.65	V
V _{OH} HIGH-level		$V_{I} = V_{IH} \text{ or } V_{IL}$								
	output voltage	$I_{O} = -50 \ \mu A; \ V_{CC} = 2.0 \ V$	1.9	2.0	-	1.9	-	1.9	-	V
		$I_O = -50 \ \mu\text{A}; \ V_{CC} = 3.0 \ \text{V}$	2.9	3.0	-	2.9	-	2.9	-	V
		$I_0 = -50 \ \mu A; \ V_{CC} = 4.5 \ V$	4.4	4.5	-	4.4	-	4.4	-	V
		I_{O} = -4.0 mA; V_{CC} = 3.0 V	2.58	-	-	2.48	-	2.40	-	V
		$I_{O} = -8.0 \text{ mA}; V_{CC} = 4.5 \text{ V}$	3.94	-	-	3.80	-	3.70	-	V
V _{OL}	LOW-level	$V_{I} = V_{IH} \text{ or } V_{IL}$								
	output voltage	$I_0 = 50 \ \mu A; V_{CC} = 2.0 \ V$	-	0	0.1	-	0.1	-	0.1	V
		$I_0 = 50 \ \mu A; V_{CC} = 3.0 \ V$	-	0	0.1	-	0.1	-	0.1	V
		$I_0 = 50 \ \mu A; V_{CC} = 4.5 \ V$	-	0	0.1	-	0.1	-	0.1	V
		I_0 = 4.0 mA; V_{CC} = 3.0 V	-	-	0.36	-	0.44	-	0.55	V
		I_0 = 8.0 mA; V_{CC} = 4.5 V	-	-	0.36	-	0.44	-	0.55	V
AHC_AHCT24	10	All information provided	in this docum	ent is subjed	ct to legal disc	laimers.		©Νλ	(P B.V. 2010. All rig	hts reser
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Symbol	Parameter	Conditions		25 °C		-40 °C t	to +85 °C	–40 °C t	o +125 °C	Uni
			Min	Тур	Max	Min	Max	Min	Max	
I	input leakage current	V _I = 5.5 V or GND; V _{CC} = 0 V to 5.5 V	-	-	0.1	-	1.0	-	2.0	μA
oz	OFF-state output current	$ \begin{array}{l} V_{I} = V_{IH} \text{ or } V_{IL}; \\ V_{O} = V_{CC} \text{ or } GND; \\ V_{CC} = 5.5 \ V \end{array} $	-	-	±0.25	-	±2.5	-	±10.0	μΑ
lcc	supply current	$\label{eq:VI} \begin{array}{l} V_{I} = V_{CC} \text{ or } GND; \ I_{O} = 0 \ A; \\ V_{CC} = 5.5 \ V \end{array}$	-	-	4.0	-	40	-	80	μA
Cı	input capacitance	$V_{I} = V_{CC}$ or GND	-	3	10	-	10	-	10	pF
Co	output capacitance		-	4	-	-	-	-	-	pF
74AHCT	240									
V _{IH}	HIGH-level input voltage	V_{CC} = 4.5 V to 5.5 V	2.0	-	-	2.0	-	2.0	-	V
V _{IL}	LOW-level input voltage	V_{CC} = 4.5 V to 5.5 V	-	-	0.8	-	0.8	-	0.8	V
V _{он}	HIGH-level	$V_{I} = V_{IH} \text{ or } V_{IL}; V_{CC} = 4.5 \text{ V}$								
(output voltage	I _O = -50 μA	4.4	4.5	-	4.4	-	4.4	-	V
		I _O = -8.0 mA	3.94	-	-	3.80	-	3.70	-	V
V _{OL}		$V_{I} = V_{IH} \text{ or } V_{IL}; V_{CC} = 4.5 \text{ V}$								
	output voltage	I _O = 50 μA	-	0	0.1	-	0.1	-	0.1	V
		l _O = 8.0 mA	-	-	0.36	-	0.44	-	0.55	V
I	input leakage current	$V_I = 5.5 V \text{ or GND};$ $V_{CC} = 0 V \text{ to } 5.5 V$	-	-	0.1	-	1.0	-	2.0	μA
I _{OZ}	OFF-state output current		-	-	±0.25	-	±2.5	-	±10.0	μΑ
I _{CC}	supply current		-	-	4.0	-	40	-	80	μA
∆l _{CC}	additional supply current	per input pin; $V_I = V_{CC} - 2.1 \text{ V};$ other pins at V_{CC} or GND; $I_O = 0 \text{ A}; V_{CC} = 4.5 \text{ V}$ to 5.5 V	-	-	1.35	-	1.5	-	1.5	mA
Cı	input capacitance	$V_I = V_{CC}$ or GND	-	3	10	-	10	-	10	pF
Co	output capacitance		-	4	-	-	-	-	-	pF

Table 6. Static characteristics ...continued

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

Octal buffer/line driver; inverting; 3-state

10. Dynamic characteristics

Table 7. Dynamic characteristics

Voltages are referenced to GND (ground = 0 V); for test circuit see Figure 7.

Symbol	Parameter	Conditions			25 °C		-4	0 °C to +′	125 °C	Unit
				Min	Typ <mark>[1]</mark>	Max	Min	Max (85 °C)	Max (125 °C)	
74AHC2	40									
t _{pd}	propagation delay	nAn to nYn; see <u>Figure 5</u>	[2]							
		V_{CC} = 3.0 V to 3.6 V; C_L = 15 pF		-	3.9	7.5	1.0	8.6	10.8	ns
		V_{CC} = 3.0 V to 3.6 V; C_{L} = 50 pF		-	5.8	11.0	1.0	12.5	15.6	ns
		V_{CC} = 4.5 V to 5.5 V; C_L = 15 pF		-	2.8	4.8	1.0	5.7	7.1	ns
		V_{CC} = 4.5 V to 5.5 V; C_L = 50 pF		-	4.2	7.3	1.0	8.5	10.6	ns
t _{en}	enable time	nOE to nYn; see <u>Figure 6</u>	[2]							
		V_{CC} = 3.0 V to 3.6 V; C_L = 15 pF		-	4.4	10.0	1.0	12.0	19.4	ns
		V_{CC} = 3.0 V to 3.6 V; C_{L} = 50 pF		-	5.8	13.5	1.0	15.5	19.4	ns
		V_{CC} = 4.5 V to 5.5 V; C_L = 15 pF		-	3.1	6.5	1.0	7.7	12.5	ns
		V_{CC} = 4.5 V to 5.5 V; C_{L} = 50 pF		-	4.1	8.5	1.0	10.0	12.5	ns
t _{dis}	disable time	nOE to nYn; see <u>Figure 6</u>	[2]							
		V_{CC} = 3.0 V to 3.6 V; C_L = 15 pF		-	5.3	9.0	1.0	10.0	18.1	ns
		V_{CC} = 3.0 V to 3.6 V; C_{L} = 50 pF		-	8.9	13.0	1.0	14.5	18.1	ns
		V_{CC} = 4.5 V to 5.5 V; C_L = 15 pF		-	3.9	5.8	1.0	6.5	8.1	ns
		V_{CC} = 4.5 V to 5.5 V; C_L = 50 pF		-	6.2	8.7	1.0	9.5	11.8	ns
C _{PD}	power dissipation capacitance	$V_I = GND$ to V_{CC} ; $C_L = 50 \text{ pF}$; $f_i = 1 \text{ MHz}$	[3]	-	9	-	-	-	-	pF

Octal buffer/line driver; inverting; 3-state

Symbol	Parameter	Parameter Conditions		25 °C			–40 °C to +125 °C			Unit
				Min	Typ <mark>[1]</mark>	Мах	Min	Max (85 °C)	Max (125 °C)	
74AHCT	240									
t _{pd} propagation delay	propagation delay	nAn to nYn; see <u>Figure 5</u>	[2]							
	V_{CC} = 4.5 V to 5.5 V; C_{L} = 15 pF		-	3.0	5.8	1.0	6.8	8.5	ns	
		V_{CC} = 4.5 V to 5.5 V; C_{L} = 50 pF		-	4.4	8.4	1.0	9.5	11.9	ns
t _{en}	enable time	nOE to nYn; see <u>Figure 6</u>	[2]							
		V_{CC} = 4.5 V to 5.5 V; C_L = 15 pF		-	3.4	7.5	1.0	9.0	14.4	ns
		V_{CC} = 4.5 V to 5.5 V; C_{L} = 50 pF		-	4.5	9.5	1.0	11.5	14.4	ns
t _{dis}	disable time	nOE to nYn; see Figure 6	[2]							
		V_{CC} = 4.5 V to 5.5 V; C_L = 15 pF		-	3.9	6.1	1.0	6.7	8.3	ns
		V_{CC} = 4.5 V to 5.5 V; C_{L} = 50 pF		-	6.2	8.7	1.0	9.2	11.5	ns
C _{PD}	power dissipation capacitance	$V_I = GND$ to V_{CC} ; $C_L = 50 \text{ pF}$; $f_i = 1 \text{ MHz}$	<u>[3]</u>	-	9	-	-	-	-	pF

Table 7. Dynamic characteristics ...continued

Voltages are referenced to GND (ground = 0 V); for test circuit see Figure 7.

[1] Typical values are measured at nominal supply voltage ($V_{CC} = 3.3$ V and $V_{CC} = 5.0$ V).

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

[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;

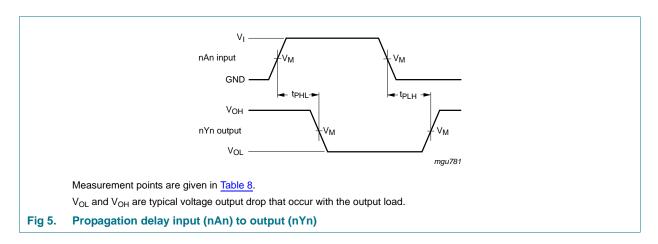
 C_L = output load capacitance in pF;

 V_{CC} = supply voltage in V;

N = number of inputs switching;

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

11. Waveforms



74AHC_AHCT240

Product data sheet

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74AHC240; 74AHCT240

Octal buffer/line driver; inverting; 3-state

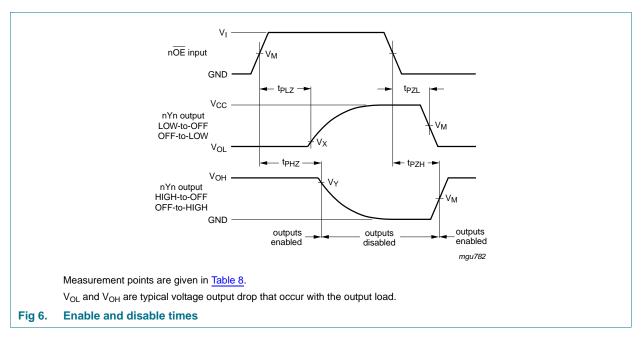


Table 8.Measurement points

Туре	Input	Output						
	V _M	V _M	V _X	V _Y				
74AHC240	0.5V _{CC}	0.5V _{CC}	V _{OL} + 0.3 V	$V_{OH} - 0.3 \ V$				
74AHCT240	1.5 V	0.5V _{CC}	V _{OL} + 0.3 V	$V_{OH} - 0.3 \ V$				

74AHC_AHCT240

Product data sheet

NXP Semiconductors

74AHC240; 74AHCT240

Octal buffer/line driver; inverting; 3-state

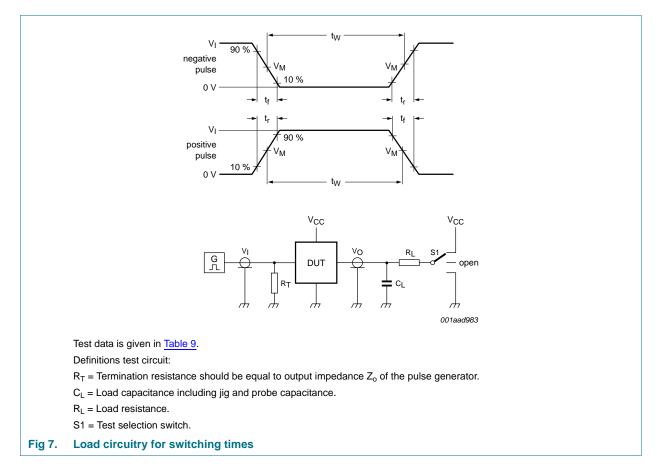


Table 9. Test data

Туре	Input		Load		S1 position			
	VI	t _r , t _f	CL	RL	t _{PHL} , t _{PLH}	t _{PZH} , t _{PHZ}	t _{PZL} , t _{PLZ}	
74AHC240	V _{CC}	3.0 ns	15 pF, 50 pF	1 kΩ	open	GND	V _{CC}	
74AHCT240	3.0 V	3.0 ns	15 pF, 50 pF	1 kΩ	open	GND	V _{CC}	



Octal buffer/line driver; inverting; 3-state

12. Package outline

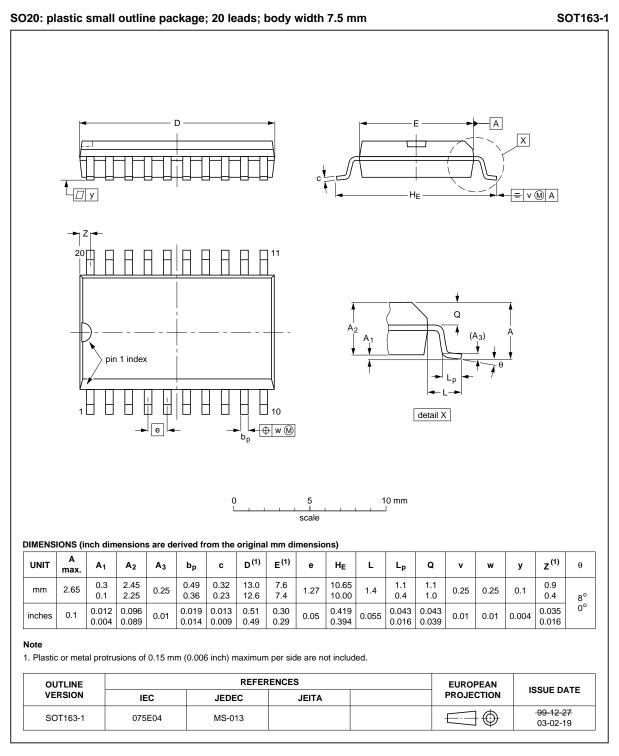


Fig 8. Package outline SOT163-1 (SO20)

74AHC_AHCT240

Product data sheet

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Octal buffer/line driver; inverting; 3-state

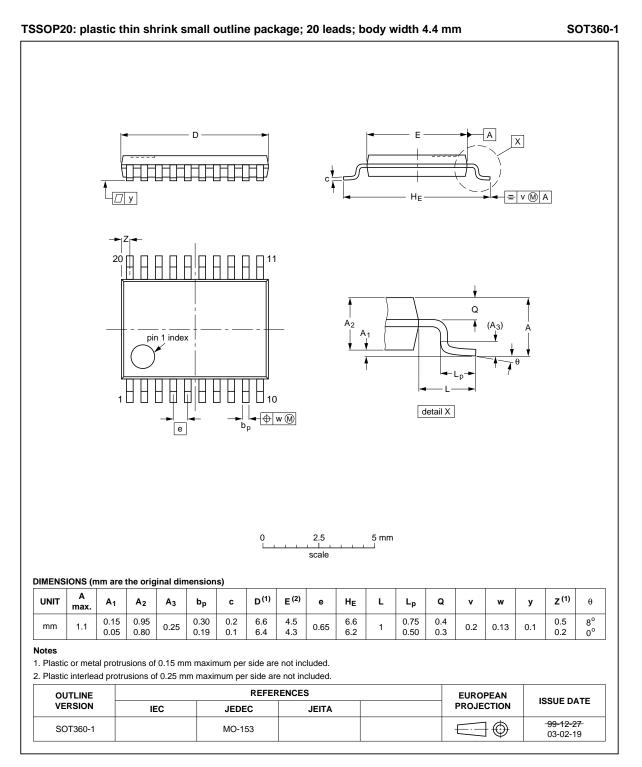
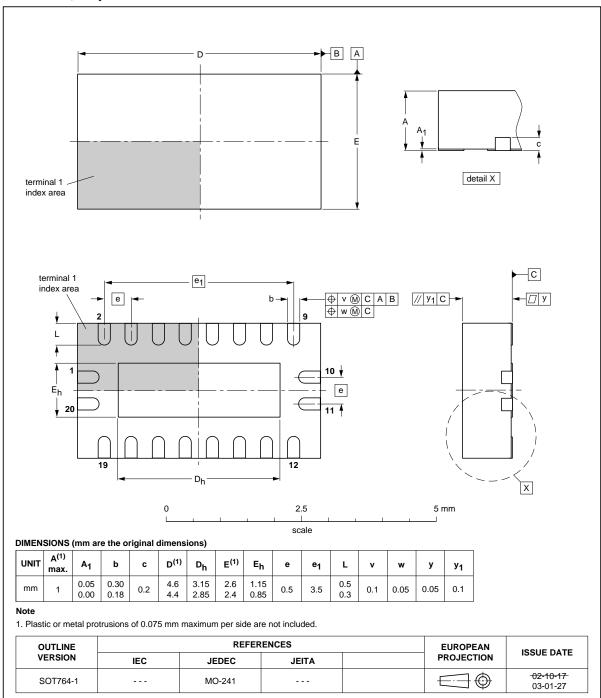


Fig 9. Package outline SOT360-1 (TSSOP20)

Octal buffer/line driver; inverting; 3-state



DHVQFN20: plastic dual in-line compatible thermal enhanced very thin quad flat package; no leads; 20 terminals; body 2.5 x 4.5 x 0.85 mm SOT764-1

Fig 10. Package outline SOT764-1 (DHVQFN20)



Octal buffer/line driver; inverting; 3-state

13. Abbreviations

Acronym CDM CMOS	Description Charge Device Model Complementary Metal Oxide Semiconductor
	5
CMOS	Complementary Metal Oxide Semiconductor
	complementary metal exite connected etch
DUT	Device Under Test
ESD	ElectroStatic Discharge
HBM	Human Body Model
TTL	Transistor-Transistor Logic

14. Revision history

Table 11. Revision history						
Document ID	Release date	Data sheet status	Change notice	Supersedes		
74AHC_AHCT240 v.2	20101126	Product data sheet	-	74AHC_AHCT240 v.1		
Modifications:	• Figure note [1] of	f Figure 4: changed.				
74AHC_AHCT240 v.1	20100111	Product data sheet	-	-		

Octal buffer/line driver; inverting; 3-state

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".

[3] The product status of device(s) described in this document may have changed since this document was published and may differ in case of multiple devices. The latest product status information is available on the Internet at URL http://www.nxp.com.

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