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Kind regards,

Team Nexperia

74HC08-Q100; 74HCT08-Q100

Quad 2-input AND gate Rev. 1 — 16 July 2012

Product data sheet

1. **General description**

The 74HC08-Q100; 7 4HCT08-Q100 is a quad 2-input AND gate. Inputs include clamp diodes. This enables the use of current limiting resistors to interface inputs to voltages in excess of V_{CC}.

This product has been qualified to the Automotive Electronics Council (AEC) standard Q100 (Grade 1) and is suitable for use in automotive applications.

2. **Features and benefits**

- Automotive product qualification in accordance with AEC-Q100 (Grade 1)
 - ◆ Specified from -40 °C to +85 °C and from -40 °C to +125 °C
- Complies with JEDEC standard JESD7A
- Complies with JEDEC standard JESD8-1A
- Input levels:
 - For 74HC08-Q100: CMOS level
 - ◆ For 74HCT08-Q100: TTL level
- ESD protection:
 - MIL-STD-883, method 3015 exceeds 2000 V
 - ♦ HBM JESD22-A114F exceeds 2000 V
 - ♦ MM JESD22-A115-A exceeds 200 V (C = 200 pF, R = 0 Ω)
- Multiple package options

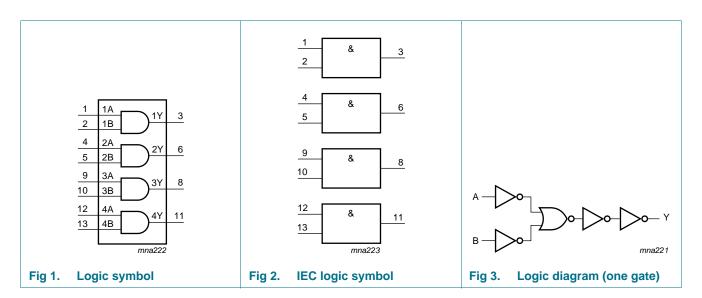
Ordering information 3.

Table 1. **Ordering information**

Type number	Package											
	Temperature range	Name	Description	Version								
74HC08D-Q100	–40 °C to +125 °C	SO14	plastic small outline package; 14 leads; body width	SOT108-1								
74HCT08D-Q100			3.9 mm									
74HC08PW-Q100	–40 °C to +125 °C	TSSOP14	plastic thin shrink small outline package; 14 leads;	SOT402-1								
74HCT08PW-Q100			body width 4.4 mm									
74HC08BQ-Q100	–40 °C to +125 °C	DHVQFN14	plastic dual in-line compatible thermal enhanced	SOT762-1								
74HCT08BQ-Q100	_		very thin quad flat package; no leads; 14 terminals; body 2.5 \times 3 \times 0.85 mm									

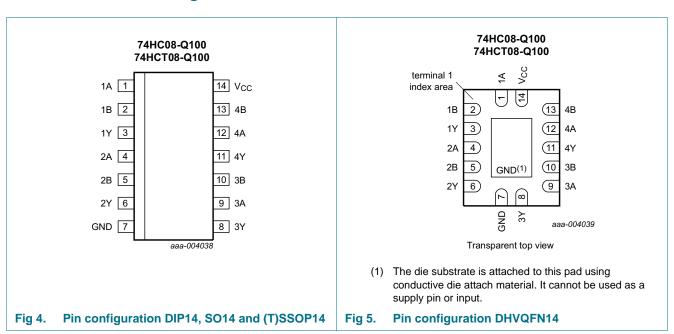


4. Functional diagram



5. Pinning information

5.1 Pinning



2 of 14

5.2 Pin description

Table 2. Pin description

Symbol	Pin	Description
1A to 4A	1, 4, 9, 12	data input
1B to 4B	2, 5, 10,13	data input
1Y to 4Y	3, 6, 8, 11	data output
GND	7	ground (0 V)
V _{CC}	14	supply voltage

6. Functional description

Table 3. Function table[1]

Input		Output
nA	nB	nY
L	L	L
L	Н	L
Н	L	L
Н	Н	Н

^[1] H = HIGH voltage level;

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	$V_I < -0.5 \text{ V or } V_I > V_{CC} + 0.5 \text{ V}$	<u>[1]</u> _	±20	mA
I _{OK}	output clamping current	$V_O < -0.5 \text{ V or } V_O > V_{CC} + 0.5 \text{ V}$	<u>[1]</u> _	±20	mA
Io	output current	$-0.5 \text{ V} < \text{V}_{\text{O}} < \text{V}_{\text{CC}} + 0.5 \text{ V}$	-	±25	mA
I _{CC}	supply current		-	50	mA
I _{GND}	ground current		-50	-	mA
T _{stg}	storage temperature		-65	+150	°C
P _{tot}	total power dissipation		[2] _	500	mW

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

For TSSOP14 packages: P_{tot} derates linearly with 5.5 mW/K above 60 $^{\circ}\text{C}.$

For DHVQFN14 packages: P_{tot} derates linearly with 4.5 mW/K above 60 $^{\circ}\text{C}.$

L = LOW voltage level;

X = don't care.

^[2] For SO14 package: P_{tot} derates linearly with 8 mW/K above 70 $^{\circ}\text{C}.$

8. Recommended operating conditions

Table 5. Recommended operating conditions

Voltages are referenced to GND (ground = 0 V)

Symbol	Parameter	Conditions	74HC0	B-Q100		74HCT		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	-	+125	-40	-	+125	°C
$\Delta t / \Delta V$	input transition rise and fall rate	$V_{CC} = 2.0 \text{ V}$	-	-	625	-	-	-	ns/V
		$V_{CC} = 4.5 \text{ V}$	-	1.67	139	-	1.67	139	ns/V
		$V_{CC} = 6.0 \text{ V}$	-	-	83	-	-	-	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 t	o +85 °C	–40 °C to	Unit	
			Min	Тур	Max	Min	Max	Min	Max	
74HC08-	-!00			1		1	1			
V _{IH}	HIGH-level	$V_{CC} = 2.0 \text{ V}$	1.5	1.2	-	1.5	-	1.5	-	V
	input voltage	$V_{CC} = 4.5 \text{ V}$	3.15	2.4	-	3.15	-	3.15	-	V
		$V_{CC} = 6.0 \text{ V}$	4.2	3.2	-	4.2	-	4.2	-	V
V_{IL}	LOW-level	V _{CC} = 2.0 V	-	8.0	0.5	-	0.5	-	0.5	V
input voltage	V _{CC} = 4.5 V	-	2.1	1.35	-	1.35	-	1.35	V	
		$V_{CC} = 6.0 \text{ V}$	-	2.8	1.8	-	1.8	-	1.8	V
V _{OH}	HIGH-level	$V_I = V_{IH}$ or V_{IL}								
output voltage	$I_O = -20 \mu A; V_{CC} = 2.0 V$	1.9	2.0	-	1.9	-	1.9	-	V	
		$I_O = -20 \mu A$; $V_{CC} = 4.5 V$	4.4	4.5	-	4.4	-	4.4	-	V
		$I_{O} = -20 \mu A; V_{CC} = 6.0 V$	5.9	6.0	-	5.9	-	5.9	-	V
		$I_{O} = -4.0 \text{ mA}; V_{CC} = 4.5 \text{ V}$	3.98	4.32	-	3.84	-	3.7	-	V
		$I_{O} = -5.2 \text{ mA}; V_{CC} = 6.0 \text{ V}$	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
		$I_O = 4.0 \text{ mA}; V_{CC} = 4.5 \text{ V}$	-	0.15	0.26	-	0.33	-	0.4	V
		$I_{O} = 5.2 \text{ mA}; V_{CC} = 6.0 \text{ V}$	-	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	-	±1	μΑ
I _{CC}	supply current	$V_I = V_{CC}$ or GND; $I_O = 0$ A; $V_{CC} = 6.0 \text{ V}$	-	-	2.0	-	20	-	40	μΑ

 Table 6.
 Static characteristics ...continued

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

Symbol	Parameter	Conditions		25 °C		-40 °C t	o +85 °C	–40 °C to	+125 °C	Unit
			Min	Тур	Max	Min	Max	Min	Max	
C _I	input capacitance		-	3.5	-	-	-	-	-	pF
74HCT0	8-Q100									
V_{IH}	HIGH-level input voltage	$V_{CC} = 4.5 \text{ V to } 5.5 \text{ V}$	2.0	1.6	-	2.0	-	2.0	-	V
V_{IL}	LOW-level input voltage	$V_{CC} = 4.5 \text{ V to } 5.5 \text{ V}$	-	1.2	8.0	-	0.8	-	0.8	V
V_{OH}	HIGH-level	$V_I = V_{IH}$ or V_{IL} ; $V_{CC} = 4.5 \text{ V}$								
	output voltage	$I_{O} = -20 \mu A$	4.4	4.5	-	4.4	-	4.4	-	V
		$I_{O} = -4.0 \text{ mA}$	3.98	4.32	-	3.84	-	3.7	-	V
V _{OL}	LOW-level	$V_I = V_{IH}$ or V_{IL} ; $V_{CC} = 4.5 \text{ V}$								
	output voltage	I _O = 20 μA	-	0	0.1	-	0.1	-	0.1	V
		$I_0 = 5.2 \text{ mA}$	-	0.15	0.26	-	0.33	-	0.4	V
II	input leakage current	$V_I = V_{CC}$ or GND; $V_{CC} = 5.5 \text{ V}$	-	-	±0.1	-	±1	-	±1	μΑ
I _{CC}	supply current	$V_I = V_{CC}$ or GND; $I_O = 0$ A; $V_{CC} = 5.5 \text{ V}$	-	-	2.0	-	20	-	40	μΑ
Δl _{CC}	additional supply current	per input pin; $V_I = V_{CC} - 2.1 \text{ V; } I_O = 0 \text{ A;}$ other inputs at V_{CC} or GND; $V_{CC} = 4.5 \text{ V to } 5.5 \text{ V}$	-	60	216	-	270	-	294	μА
C _I	input capacitance		-	3.5	-	-	-	-	-	pF

10. Dynamic characteristics

 Table 7.
 Dynamic characteristics

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

Symbol	Parameter	Conditions			25 °C		-40 °C to	+125 °C	Unit
			Min	Тур	Max	Max (85 °C)	Max (125 °C)		
74HC08-	Q100	'			'	•	'	•	
t _{pd}	propagation delay	nA, nB to nY; see Figure 6	<u>[1]</u>						
		$V_{CC} = 2.0 \text{ V}$		-	25	90	115	135	ns
		$V_{CC} = 4.5 \text{ V}$		-	9	18	23	27	ns
		$V_{CC} = 5.0 \text{ V}; C_L = 15 \text{ pF}$		-	7	-	-	-	ns
		$V_{CC} = 6.0 \text{ V}$		-	7	15	20	23	ns
t _t	transition time	see Figure 6	[2]						
		$V_{CC} = 2.0 \text{ V}$		-	19	75	95	110	ns
		$V_{CC} = 4.5 \text{ V}$		-	7	15	19	22	ns
		$V_{CC} = 6.0 \text{ V}$		-	6	13	16	19	ns

Table 7. Dynamic characteristics

 $GND = 0 \ V; \ C_L = 50 \ pF;$ for load circuit see Figure 7.

Symbol	Parameter	Conditions		25 °C		-40 °C to	o +125 °C	Unit	
			Min	Тур	Max	Max (85 °C)	Max (125 °C)		
C_{PD}	power dissipation capacitance	per package; $V_I = GND$ to V_{CC}	[3]	-	10	-	-	-	pF
74HCT0	8-Q100								
t _{pd}	propagation delay	nA, nB to nY; see Figure 6	<u>[1]</u>						
		V _{CC} = 4.5 V		-	14	24	30	36	ns
		$V_{CC} = 5.0 \text{ V}; C_L = 15 \text{ pF}$		-	11	-	-	-	ns
t _t	transition time	V _{CC} = 4.5 V; see <u>Figure 6</u>	[2]	-	7	15	19	22	ns
C_{PD}	power dissipation capacitance	per package; V _I = GND to V _{CC} – 1.5 V	[3]	-	20	-	-	-	pF

- [1] t_{pd} is the same as t_{PHL} and t_{PLH} .
- [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 μW):

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

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

11. Waveforms

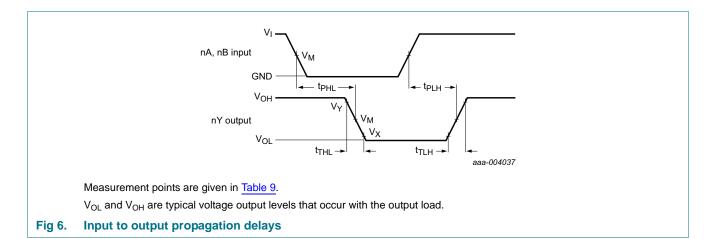
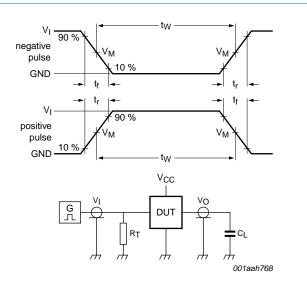


Table 8. Measurement points

Туре	Input	Output		
	V _M	V _M	V _X	V _Y
74HC08-Q100	0.5V _{CC}	0.5V _{CC}	0.1V _{CC}	0.9V _{CC}
74HCT08-Q100	1.3 V	1.3 V	0.1V _{CC}	0.9V _{CC}

74HC_HCT08_Q100



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.

Fig 7. Load circuitry for measuring switching times

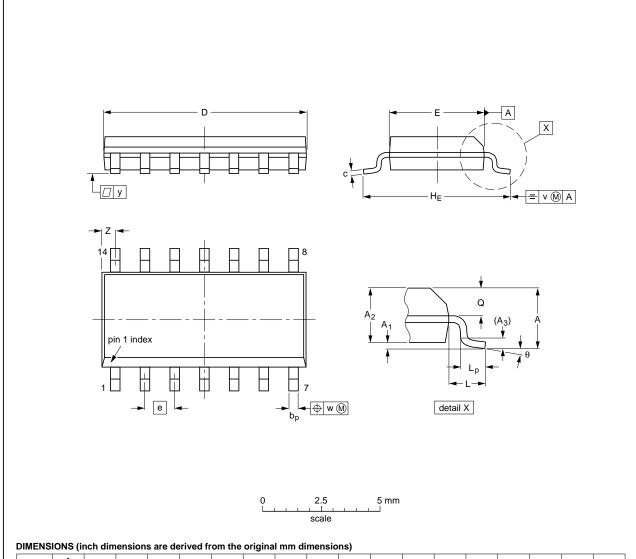
Table 9. Test data

Туре	Input		Load	Test
	VI	t _r , t _f	CL	
74HC08-Q100	V _{CC}	6.0 ns	15 pF, 50 pF	t _{PLH} , t _{PHL}
74HCT08-Q100	3.0 V	6.0 ns	15 pF, 50 pF	t _{PLH} , t _{PHL}

12. Package outline

SO14: plastic small outline package; 14 leads; body width 3.9 mm

SOT108-1



UNIT	A max.	A ₁	A ₂	A ₃	bp	С	D ⁽¹⁾	E ⁽¹⁾	е	HE	L	Lp	Q	v	w	у	z ⁽¹⁾	θ
mm	1.75	0.25 0.10	1.45 1.25	0.25	0.49 0.36	0.25 0.19	8.75 8.55	4.0 3.8	1.27	6.2 5.8	1.05	1.0 0.4	0.7 0.6	0.25	0.25	0.1	0.7 0.3	8°
inches	0.069	0.010 0.004	0.057 0.049	0.01	1	0.0100 0.0075	0.35 0.34	0.16 0.15	0.05	0.244 0.228	0.041	0.039 0.016	0.028 0.024	0.01	0.01	0.004	0.028 0.012	0°

Note

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

OUTLINE		REFER	ENCES	EUROPEAN	ISSUE DATE
VERSION	IEC	JEDEC	JEITA	PROJECTION	ISSUE DATE
SOT108-1	076E06	MS-012			99-12-27 03-02-19

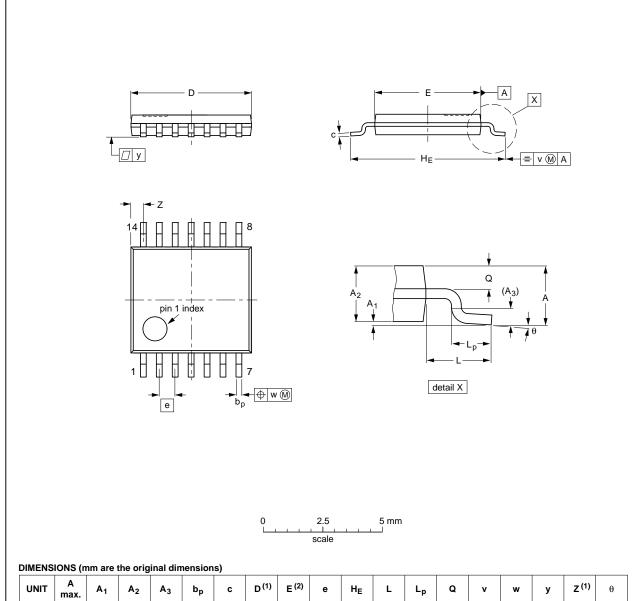
Fig 8. Package outline SOT108-1 (SO14)

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TSSOP14: plastic thin shrink small outline package; 14 leads; body width 4.4 mm

SOT402-1



						٠,												
UNIT	A max.	A ₁	A ₂	A ₃	bp	С	D ⁽¹⁾	E (2)	е	HE	L	Lp	Q	v	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	5.1 4.9	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	0.72 0.38	8° 0°

- 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.

VERSION IEC JEDEC JEITA PROJECTION 99-12-2	OUTLINE		REFER	ENCES	EUROPEAN	ISSUE DATE	
SO(402-1)	VERSION	IEC	JEDEC	JEITA	PROJECTION	ISSUE DATE	
03-02-	SOT402-1		MO-153			99-12-27 03-02-18	

Package outline SOT402-1 (TSSOP14) Fig 9.

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DHVQFN14: plastic dual in-line compatible thermal enhanced very thin quad flat package; no leads; 14 terminals; body 2.5 x 3 x 0.85 mm SOT762-1

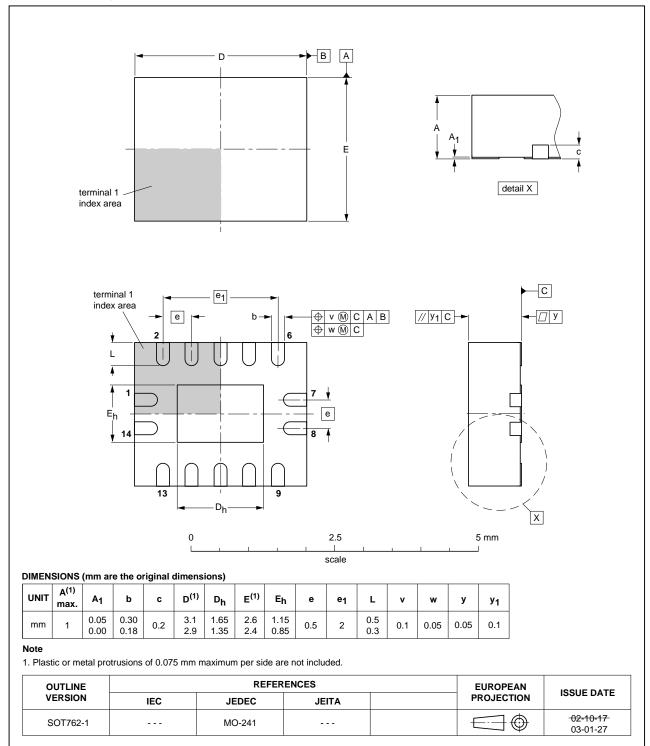


Fig 10. Package outline SOT762-1 (DHVQFN14)

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13. Abbreviations

Table 10. 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
MM	Machine Model
TTL	Transistor-Transistor Logic
MIL	Military

14. Revision history

Table 11. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
74HC_HCT08_Q100 v.1	20120716	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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