



AiP74AHC/AHCT2G08

Dual 2-input And Gate

Product Specification

Specification Revision History:

Version	Date	Description
2018-09-A1	2018-09	New
2023-04-B1	2023-04	Update the template



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1、 General Description

The AiP74AHC2G08; AiP74AHCT2G08 is a high-speed Si-gate CMOS device.

The AiP74AHC2G08; AiP74AHCT2G08 provides two 2-input AND gates.

Features:

- Symmetrical output impedance
- Low power dissipation
- Balanced propagation delays
- Specified from -40°C to +125°C
- Packaging information: TSSOP8/VSSOP8

**Ordering Information:****Tube packing specifications:**

Part number	Packaging form	Marking code	Tube quantity	Boxed tube quantity	Boxed quantity	Notes
AiP74AHC2G08TA8.TB	TSSOP8	CPXX	100 PCS/tube	200 tube/box	20000 PCS/box	Dimensions of plastic enclosure: 3.0mm×3.0mm Pin spacing: 0.65mm
AiP74AHCT2G08TA8.TB	TSSOP8	CQXX	100 PCS/tube	200 tube/box	20000 PCS/box	Dimensions of plastic enclosure: 3.0mm×3.0mm Pin spacing: 0.65mm

Reel packing specifications:

Part number	Packaging form	Marking code	Reel quantity	Boxed reel quantity	Notes
AiP74AHC2G08 TA8.TR	TSSOP8	CPXX	3000 PCS/reel	3000 PCS/box	Dimensions of plastic enclosure: 3.0mm×3.0mm Pin spacing:0.65mm
AiP74AHCT2G08 TA8.TR	TSSOP8	CQXX	3000 PCS/reel	3000 PCS/box	Dimensions of plastic enclosure: 3.0mm×3.0mm Pin spacing:0.65mm
AiP74AHC2G08 YA8.TR	VSSOP8	CPXX	3000 PCS/reel	3000 PCS/box	Dimensions of plastic enclosure: 2.0mm×2.3mm Pin spacing:0.50mm
AiP74AHCT2G08 YA8.TR	VSSOP8	CQXX	3000 PCS/reel	3000 PCS/box	Dimensions of plastic enclosure: 2.0mm×2.3mm Pin spacing:0.50mm

Note 1: "XX" refers to variable content, meaning year and package batch serial number.

Note 2: If the physical information is inconsistent with the ordering information, please refer to the actual product.



2、Block Diagram And Pin Description

2.1、Block Diagram

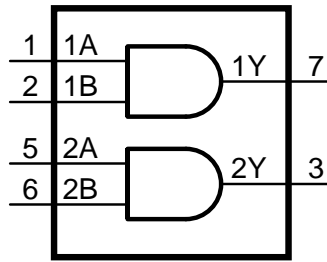


Figure 1. Logic symbol

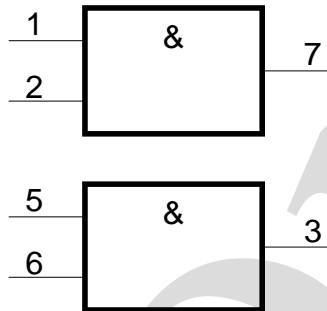


Figure 2. IEC logic symbol

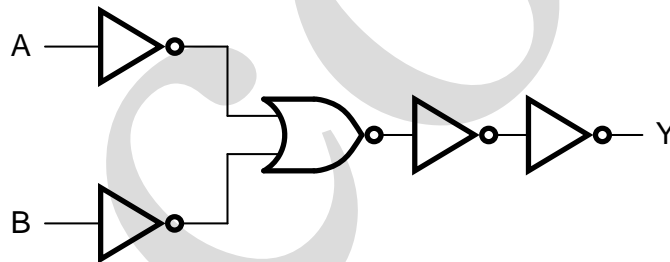
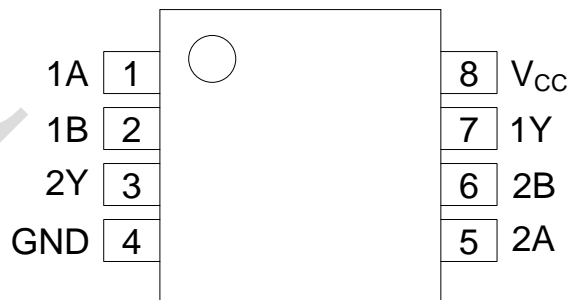


Figure 3. Logic diagram (one gate)

2.2、Pin Configurations





2.3、Pin Description

Pin No.	Pin Name	Description
1	1A	data input
2	1B	data input
3	2Y	data output
4	GND	ground (0V)
5	2A	data input
6	2B	data input
7	1Y	data output
8	V _{CC}	supply voltage

2.4、Function table

Input		Output
nA	nB	nY
L	L	L
L	H	L
H	L	L
H	H	H

Note: H=HIGH voltage level; L=LOW voltage level.

3、Electrical Parameter

3.1、Absolute Maximum Ratings

(T_{amb}=25°C, voltages are referenced to GND (ground=0V), unless otherwise specified)

Characteristic	Symbol	Conditions	Min.	Max.	Unit
supply voltage	V _{CC}	-	-0.5	+7.0	V
input voltage	V _I	-	-0.5	+7.0	V
input clamping current	I _{IK}	V _I <-0.5V ^[1]	-20	-	mA
output clamping current	I _{OK}	V _O <-0.5V or V _O >V _{CC} +0.5V ^[1]	-	±20	mA
output current	I _O	-0.5V<V _O <V _{CC} +0.5V	-	±25	mA
supply current	I _{CC}	-	-	75	mA
ground current	I _{GND}	-	-75	-	mA
storage temperature	T _{stg}	-	-65	150	°C
total power dissipation	P _{tot}	T _{amb} =-40°C to +125°C	-	250	mW
soldering temperature	T _L	10s	260		°C



3.2、Recommended Operating Conditions

(Voltages are referenced to GND (ground=0V), unless otherwise specified.)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
AiP74AHC2G08						
supply voltage	V_{CC}	-	2.0	5.0	5.5	V
input voltage	V_I	-	0	-	5.5	V
output voltage	V_O	-	0	-	V_{CC}	V
ambient temperature	T_{amb}	-	-40	-	+125	°C
input transition rise and fall rate	$\Delta t/\Delta V$	$V_{CC}=3.3V \pm 0.3V$	-	-	100	ns/V
		$V_{CC}=5.0V \pm 0.5V$	-	-	20	ns/V
AiP74AHCT2G08						
supply voltage	V_{CC}	-	4.5	5.0	5.5	V
input voltage	V_I	-	0	-	5.5	V
output voltage	V_O	-	0	-	V_{CC}	V
ambient temperature	T_{amb}	-	-40	-	+125	°C
input transition rise and fall rate	$\Delta t/\Delta V$	$V_{CC}=3.3V \pm 0.3V$	-	-	-	ns/V
		$V_{CC}=5.0V \pm 0.5V$	-	-	20	ns/V

3.3、Electrical Characteristics

3.3.1、DC Characteristics 1

($T_{amb}=25^\circ\text{C}$, voltages are referenced to GND (ground=0V), unless otherwise specified)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit	
AiP74AHC2G08							
HIGH-level input voltage	V_{IH}	$V_{CC}=2.0V$	1.5	-	-	V	
		$V_{CC}=3.0V$	2.1	-	-	V	
		$V_{CC}=5.5V$	3.85	-	-	V	
LOW-level input voltage	V_{IL}	$V_{CC}=2.0V$	-	-	0.5	V	
		$V_{CC}=3.0V$	-	-	0.9	V	
		$V_{CC}=5.5V$	-	-	1.65	V	
HIGH-level output voltage	V_{OH}	$V_I=V_{IH}$ or V_{IL}	$I_O=-50\mu A; V_{CC}=2.0V$	1.9	2.0	-	V
			$I_O=-50\mu A; V_{CC}=3.0V$	2.9	3.0	-	V
			$I_O=-50\mu A; V_{CC}=4.5V$	4.4	4.5	-	V
			$I_O=-4mA; V_{CC}=3.0V$	2.58	-	-	V
			$I_O=-8mA; V_{CC}=4.5V$	3.94	-	-	V
LOW-level output voltage	V_{OL}	$V_I=V_{IH}$ or V_{IL}	$I_O=50\mu A; V_{CC}=2.0V$	-	0	0.1	V
			$I_O=50\mu A; V_{CC}=3.0V$	-	0	0.1	V
			$I_O=50\mu A; V_{CC}=4.5V$	-	0	0.1	V
			$I_O=4mA; V_{CC}=3.0V$	-	-	0.36	V
			$I_O=8mA; V_{CC}=4.5V$	-	-	0.36	V
input leakage current	I_I	$V_I=5.5V$ or GND; $V_{CC}=0V$ to $5.5V$	-	-	1.0	μA	
supply current	I_{CC}	$V_I=V_{CC}$ or GND; $I_O=0A$; $V_{CC}=5.5V$	-	-	1.0	μA	
input capacitance	C_I	-	-	1.5	10	pF	



AiP74AHCT2G08							
HIGH-level input voltage	V_{IH}	$V_{CC}=4.5V$ to $5.5V$		2.0	-	-	V
LOW-level input voltage	V_{IL}	$V_{CC}=4.5V$ to $5.5V$		-	-	0.8	V
HIGH-level output voltage	V_{OH}	$V_I=V_{IH}$ or V_{IL}	$I_O=-50\mu A$; $V_{CC}=4.5V$	4.4	4.5	-	V
			$I_O=-8mA$; $V_{CC}=4.5V$	3.94	-	-	V
LOW-level output voltage	V_{OL}	$V_I=V_{IH}$ or V_{IL}	$I_O=50\mu A$; $V_{CC}=4.5V$	-	0	0.1	V
			$I_O=8mA$; $V_{CC}=4.5V$	-	-	0.36	V
input leakage current	I_I	$V_I=5.5V$ or GND; $V_{CC}=0V$ to $5.5V$		-	-	1.0	μA
supply current	I_{CC}	$V_I=V_{CC}$ or GND; $I_O=0A$; $V_{CC}=5.5V$		-	-	1.0	μA
additional supply current	ΔI_{CC}	per input pin; $V_I=3.4V$; other inputs at V_{CC} or GND; $I_O=0A$; $V_{CC}=5.5V$		-	-	1.35	mA
input capacitance	C_I	-		-	1.5	10	pF

3.3.2、DC Characteristics 2

($T_{amb} = -40^{\circ}C$ to $+85^{\circ}C$, voltages are referenced to GND (ground=0V), unless otherwise specified)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit	
AiP74AHC2G08							
HIGH-level input voltage	V_{IH}	$V_{CC}=2.0V$	1.5	-	-	V	
		$V_{CC}=3.0V$	2.1	-	-	V	
		$V_{CC}=5.5V$	3.85	-	-	V	
LOW-level input voltage	V_{IL}	$V_{CC}=2.0V$	-	-	0.5	V	
		$V_{CC}=3.0V$	-	-	0.9	V	
		$V_{CC}=5.5V$	-	-	1.65	V	
HIGH-level output voltage	V_{OH}	$V_I=V_{IH}$ or V_{IL}	$I_O=-50\mu A$; $V_{CC}=2.0V$	1.9	-	-	V
			$I_O=-50\mu A$; $V_{CC}=3.0V$	2.9	-	-	V
			$I_O=-50\mu A$; $V_{CC}=4.5V$	4.4	-	-	V
			$I_O=-4mA$; $V_{CC}=3.0V$	2.48	-	-	V
			$I_O=-8mA$; $V_{CC}=4.5V$	3.8	-	-	V
LOW-level output voltage	V_{OL}	$V_I=V_{IH}$ or V_{IL}	$I_O=50\mu A$; $V_{CC}=2.0V$	-	-	0.1	V
			$I_O=50\mu A$; $V_{CC}=3.0V$	-	-	0.1	V
			$I_O=50\mu A$; $V_{CC}=4.5V$	-	-	0.1	V
			$I_O=4mA$; $V_{CC}=3.0V$	-	-	0.44	V
			$I_O=8mA$; $V_{CC}=4.5V$	-	-	0.44	V
input leakage current	I_I	$V_I=5.5V$ or GND; $V_{CC}=0V$ to $5.5V$		-	-	1.0	μA
supply current	I_{CC}	$V_I=V_{CC}$ or GND; $I_O=0A$; $V_{CC}=5.5V$		-	-	10	μA
input capacitance	C_I	-		-	-	10	pF



AiP74AHCT2G08							
HIGH-level input voltage	V_{IH}	$V_{CC}=4.5V$ to $5.5V$		2.0	-	-	V
LOW-level input voltage	V_{IL}	$V_{CC}=4.5V$ to $5.5V$		-	-	0.8	V
HIGH-level output voltage	V_{OH}	$V_I=V_{IH}$ or V_{IL}	$I_O=-50\mu A$; $V_{CC}=4.5V$	4.4	-	-	V
			$I_O=-8mA$; $V_{CC}=4.5V$	3.8	-	-	V
LOW-level output voltage	V_{OL}	$V_I=V_{IH}$ or V_{IL}	$I_O=50\mu A$; $V_{CC}=4.5V$	-	-	0.1	V
			$I_O=8mA$; $V_{CC}=4.5V$	-	-	0.44	V
input leakage current	I_I	$V_I=5.5V$ or GND; $V_{CC}=0V$ to $5.5V$		-	-	1.0	μA
supply current	I_{CC}	$V_I=V_{CC}$ or GND; $I_O=0A$; $V_{CC}=5.5V$		-	-	10	μA
additional supply current	ΔI_{CC}	per input pin; $V_I=3.4V$; other inputs at V_{CC} or GND; $I_O=0A$; $V_{CC}=5.5V$		-	-	1.5	mA
input capacitance	C_I	-		-	-	10	pF

3.3.3、DC Characteristics 3

($T_{amb} = -40^{\circ}C$ to $+125^{\circ}C$, voltages are referenced to GND (ground=0V), unless otherwise specified)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit	
AiP74AHC2G08							
HIGH-level input voltage	V_{IH}	$V_{CC}=2.0V$	1.5	-	-	V	
		$V_{CC}=3.0V$	2.1	-	-	V	
		$V_{CC}=5.5V$	3.85	-	-	V	
LOW-level input voltage	V_{IL}	$V_{CC}=2.0V$	-	-	0.5	V	
		$V_{CC}=3.0V$	-	-	0.9	V	
		$V_{CC}=5.5V$	-	-	1.65	V	
HIGH-level output voltage	V_{OH}	$V_I=V_{IH}$ or V_{IL}	$I_O=-50\mu A$; $V_{CC}=2.0V$	1.9	-	-	V
			$I_O=-50\mu A$; $V_{CC}=3.0V$	2.9	-	-	V
			$I_O=-50\mu A$; $V_{CC}=4.5V$	4.4	-	-	V
			$I_O=-4mA$; $V_{CC}=3.0V$	2.4	-	-	V
			$I_O=-8mA$; $V_{CC}=4.5V$	3.7	-	-	V
LOW-level output voltage	V_{OL}	$V_I=V_{IH}$ or V_{IL}	$I_O=50\mu A$; $V_{CC}=2.0V$	-	-	0.1	V
			$I_O=50\mu A$; $V_{CC}=3.0V$	-	-	0.1	V
			$I_O=50\mu A$; $V_{CC}=4.5V$	-	-	0.1	V
			$I_O=4mA$; $V_{CC}=3.0V$	-	-	0.55	V
			$I_O=8mA$; $V_{CC}=4.5V$	-	-	0.55	V
input leakage current	I_I	$V_I=5.5V$ or GND; $V_{CC}=0V$ to $5.5V$		-	-	2.0	μA
supply current	I_{CC}	$V_I=V_{CC}$ or GND; $I_O=0A$; $V_{CC}=5.5V$		-	-	40	μA
input capacitance	C_I	-		-	-	10	pF



AiP74AHCT2G08							
HIGH-level input voltage	V_{IH}	$V_{CC}=4.5V$ to $5.5V$		2.0	-	-	V
LOW-level input voltage	V_{IL}	$V_{CC}=4.5V$ to $5.5V$		-	-	0.8	V
HIGH-level output voltage	V_{OH}	$V_I=V_{IH}$ or V_{IL}	$I_O=-50\mu A$; $V_{CC}=4.5V$	4.4	-	-	V
			$I_O=-8mA$; $V_{CC}=4.5V$	3.7	-	-	V
LOW-level output voltage	V_{OL}	$V_I=V_{IH}$ or V_{IL}	$I_O=50\mu A$; $V_{CC}=4.5V$	-	-	0.1	V
			$I_O=8mA$; $V_{CC}=4.5V$	-	-	0.55	V
input leakage current	I_I	$V_I=5.5V$ or GND; $V_{CC}=0V$ to $5.5V$		-	-	2.0	μA
supply current	I_{CC}	$V_I=V_{CC}$ or GND; $I_O=0A$; $V_{CC}=5.5V$		-	-	40	μA
additional supply current	ΔI_{CC}	per input pin; $V_I=3.4V$; other inputs at V_{CC} or GND; $I_O=0A$; $V_{CC}=5.5V$		-	-	1.5	mA
input capacitance	C_I	-		-	-	10	pF

3.3.4、AC Characteristics 1

($T_{amb}=25^{\circ}C$, GND=0V, unless otherwise specified)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit	
AiP74AHC2G08							
propagation delay	t_{pd}	nA, nB to nY; see Figure 5 ^[1]	$V_{CC}=3.0V$ to $3.6V$ ^[2]				
			$C_L=15pF$	-	4.6	8.8	ns
			$C_L=50pF$	-	6.5	12.3	ns
			$V_{CC}=4.5V$ to $5.5V$ ^[3]				
			$C_L=50pF$	-	4.6	7.9	ns
Power dissipation capacitance	C_{PD}	per buffer; $C_L=50pF$; $f_i=1MHz$; $V_I=GND$ to V_{CC} ^[4]	-	17	-	pF	
AiP74AHCT2G08							
propagation delay	t_{pd}	nA, nB to nY; see Figure 5 ^[1]	$V_{CC}=4.5V$ to $5.5V$ ^[3]				
			$C_L=15pF$	-	3.6	6.2	ns
			$C_L=50pF$	-	5.1	7.9	ns
Power dissipation capacitance	C_{PD}	per buffer; $C_L=50pF$; $f_i=1MHz$; $V_I=GND$ to V_{CC} ^[4]	-	19	-	pF	

Note:

[1] t_{pd} is the same as t_{PLH} and t_{PHL} .

[2] Typical values are measured at $V_{CC}=3.3V$.

[3] Typical values are measured at $V_{CC}=5.0V$.

[4] C_{PD} is used to determine the dynamic power dissipation (P_D in μW).

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

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.

N=number of inputs switching;

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

3.3.5、 AC Characteristics 2

($T_{amb}=-40^\circ\text{C}$ to $+85^\circ\text{C}$, GND=0V, unless otherwise specified.)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit	
AiP74AHC2G08							
propagation delay	t_{pd}	nA, nB to nY; see Figure 5 ^[1]	$V_{CC}=3.0\text{V}$ to 3.6V ^[2]				
			$C_L=15\text{pF}$	1.0	-	10.5	ns
			$C_L=50\text{pF}$	1.0	-	14.0	ns
			$V_{CC}=4.5\text{V}$ to 5.5V ^[3]				
			$C_L=15\text{pF}$	1.0	-	7.0	ns
			$C_L=50\text{pF}$	1.0	-	9.0	ns
AiP74AHCT2G08							
propagation delay	t_{pd}	nA, nB to nY; see Figure 5 ^[1]	$V_{CC}=4.5\text{V}$ to 5.5V ^[3]				
			$C_L=15\text{pF}$	1.0	-	7.1	ns
			$C_L=50\text{pF}$	1.0	-	9.0	ns

Note:

[1] t_{pd} is the same as t_{PLH} and t_{PHL} .

[2] Typical values are measured at $V_{CC}=3.3\text{V}$.

[3] Typical values are measured at $V_{CC}=5.0\text{V}$.

3.3.6、 AC Characteristics 3

($T_{amb}=-40^\circ\text{C}$ to $+125^\circ\text{C}$, GND=0V, unless otherwise specified.)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit	
AiP74AHC2G08							
propagation delay	t_{pd}	nA, nB to nY; see Figure 5 ^[1]	$V_{CC}=3.0\text{V}$ to 3.6V ^[2]				
			$C_L=15\text{pF}$	1.0	-	12.0	ns
			$C_L=50\text{pF}$	1.0	-	16.0	ns
			$V_{CC}=4.5\text{V}$ to 5.5V ^[3]				
			$C_L=15\text{pF}$	1.0	-	8.0	ns
			$C_L=50\text{pF}$	1.0	-	10.5	ns
AiP74AHCT2G08							
propagation delay	t_{pd}	nA, nB to nY; see Figure 5 ^[1]	$V_{CC}=4.5\text{V}$ to 5.5V ^[3]				
			$C_L=15\text{pF}$	1.0	-	8.0	ns
			$C_L=50\text{pF}$	1.0	-	10.5	ns

Note:

[1] t_{pd} is the same as t_{PLH} and t_{PHL} .

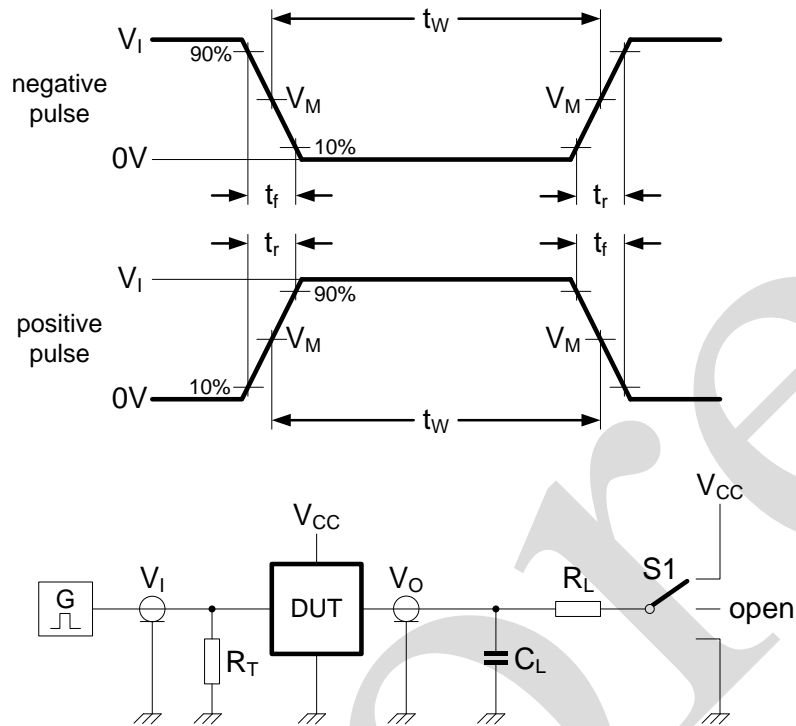
[2] Typical values are measured at $V_{CC}=3.3\text{V}$.

[3] Typical values are measured at $V_{CC}=5.0\text{V}$.



4、Testing Circuit

4.1、AC Testing Circuit



Definitions test circuit:

R_T = Termination resistance should be equal to output impedance Z_o of the pulse generator.

C_L = Load capacitance including jig and probe capacitance.

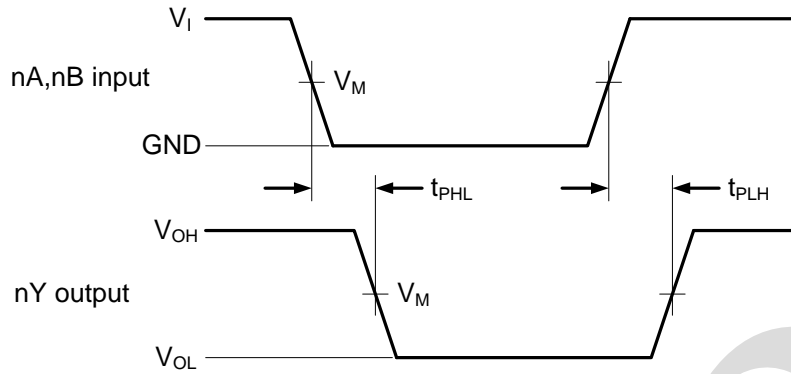
R_L = Load resistance.

S1 = Test selection switch.

Figure 4. Test circuit for measuring switching times



4.2、AC Testing Waveforms



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

Figure 5. The input (nA and nB) to output (nY) propagation delays

4.3、Measurement Points

Type	Input	Output
	V_M	V_M
AiP74AHC2G08	$0.5 \times V_{CC}$	$0.5 \times V_{CC}$
AiP74AHCT2G08	1.5V	$0.5 \times V_{CC}$

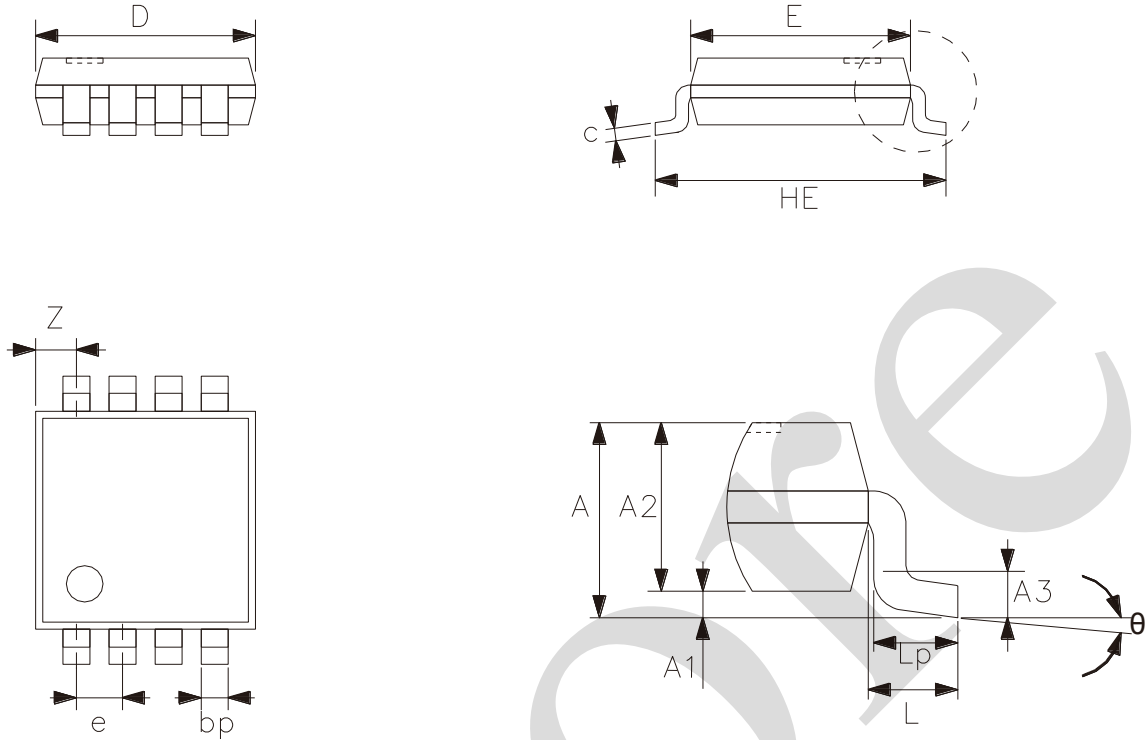
4.4、Test Data

Type	Input		Load		S1 position		
	V_I	t_r, t_f	C_L	R_L	t_{PHL}, t_{PLH}	t_{PZH}, t_{PHZ}	t_{PZL}, t_{PLZ}
AiP74AHC2G08	V_{CC}	$\leq 3ns$	15pF, 50pF	1k Ω	open	GND	V_{CC}
AiP74AHCT2G08	3V	$\leq 3ns$	15pF, 50pF	1k Ω	open	GND	V_{CC}



5、Package Information

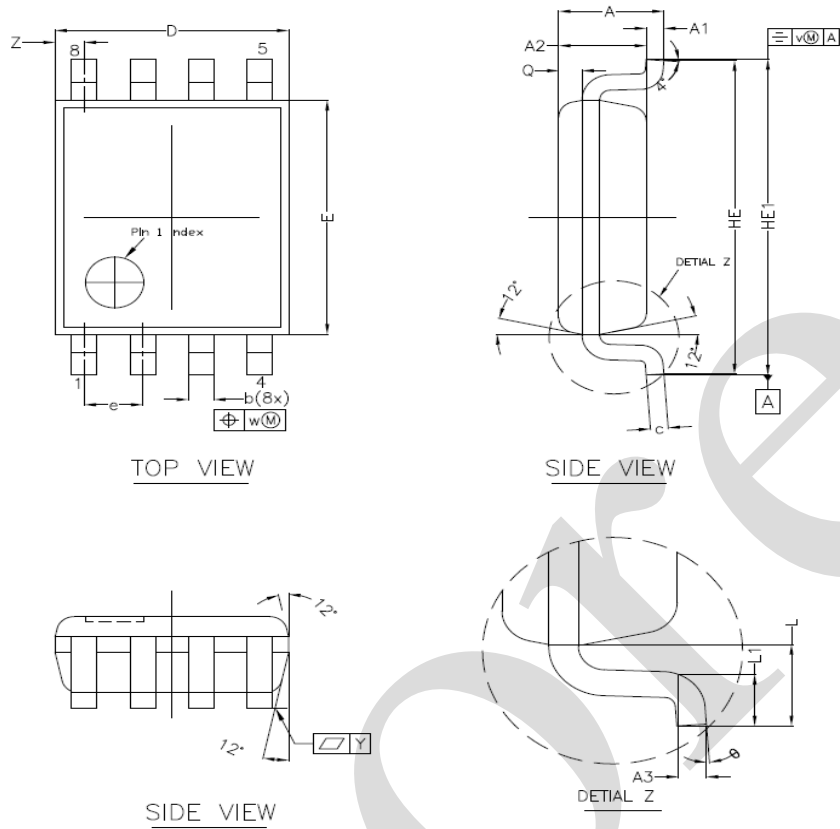
5.1、TSSOP8



Symbol	Dimensions (mm)	
	Min.	Max.
A	-	1.10
A1	0	0.15
A2	0.75	0.95
A3	0.25	
bp	0.22	0.38
c	0.08	0.18
D	2.90	3.10
E	2.90	3.10
HE	3.90	4.10
L	0.50	
Lp	0.33	0.47
e	0.65	
Z	0.35	0.70
θ	0°	8°



5.2、VSSOP8



Symbol	Dimensions (mm)	
	Min.	Max.
A	-	1.00
A1	0.00	0.15
A2	0.60	0.85
A3	0.12	
Q	0.19	0.21
b	0.17	0.27
c	0.08	0.23
D	1.90	2.10
E	2.20	2.40
HE	3.00	3.20
HE1	3.00	3.40
e	0.50	
L	0.40	
L1	0.15	0.40
Y	0.10	
Z	0.10	0.40
θ	0°	8°



6、 Statements And Notes

6.1、 The name and content of Hazardous substances or Elements in the product

Part name	Hazardous substances or Elements									
	Lead and lead compounds	Mercury and mercury compounds	Cadmium and cadmium compounds	Hexavalent chromium compounds	Polybrominated biphenyls	Polybrominated biphenyl ethers	Dibutyl phthalate	Butylbenzyl phthalate	Di-2-ethylhexyl phthalate	Diisobutyl phthalate
Lead frame	○	○	○	○	○	○	○	○	○	○
Plastic resin	○	○	○	○	○	○	○	○	○	○
Chip	○	○	○	○	○	○	○	○	○	○
The lead	○	○	○	○	○	○	○	○	○	○
Plastic sheet installed	○	○	○	○	○	○	○	○	○	○
explanation	○: Indicates that the content of hazardous substances or elements in the detection limit of the following the SJ/T11363-2006 standard. ×: Indicates that the content of hazardous substances or elements exceeding the SJ/T11363-2006 Standard limit requirements.									

6.2、 Notes

We Recommend you to read this chapter carefully before using this product.

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