



**HIGH-SPEED CMOS LOGIC HEX INVERTING
SCHMITT TRIGGER**

HTC74HC14

DATA SHEET

Rev 0.91

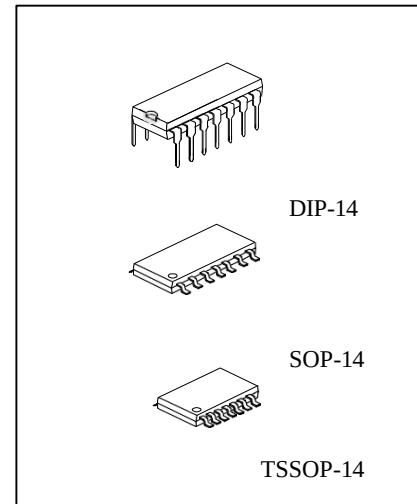
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1. DESCRIPTION

The HTC74HC/HCT14 is a hex inverter with Schmitt-trigger inputs. This device features reduced input threshold levels to allow interfacing to TTL logic levels. 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

- Input levels:
 - For HTC74HC14: CMOS level
 - For HTC74HCT14: TTL level
- Low-power dissipation
- Specified from -40°C to +125°C
- ESD protection:
 - HBM: ANSI/ESDA/JEDEC JS-001 2023 exceeds 3500 V
 - CDM: ANSI/ESDA/JEDEC JS-002 2022 exceeds 2000 V
- Latch-up performance ≤ 250 mA
- Packaging information: DIP14/SOP14/TSSOP14



3. ORDERING INFORMATION

● Tube

Part Number	Marking code	Package	Packing	Pcs/Tube	Pcs/Box
HTC74HC14D-T	HTC74HC14	DIP-14	Tube	25	7500
HTC74HC14S-R	HTC74HC14	SOP-14	Tube	50	40K

● Tape Reel

Part Number	Marking code	Package	Packing	Pcs/Reel	Pcs/ Box
HTC74HC14T-R	HTC74HC14	TSSOP-14	Tape Reel	5K	80k

4. BLOCK DIAGRAM

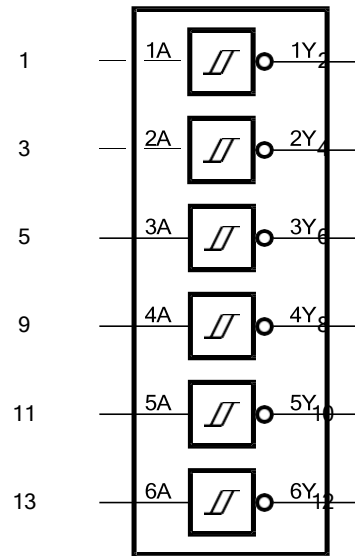


Figure 1. Logic symbol

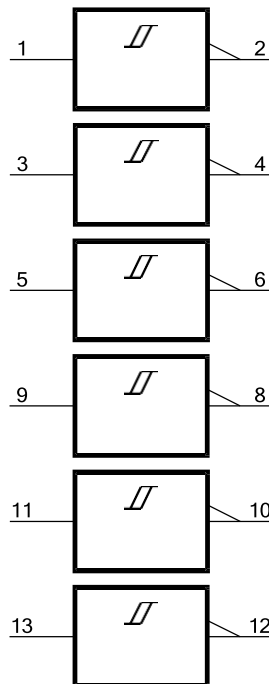


Figure 2. IEC logic symbol

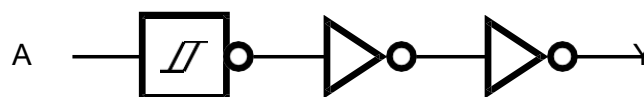
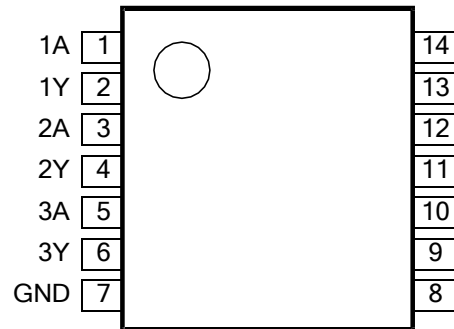


Figure 3. Logic diagram for one gate

5. PIN CONFIGURATION AND PIN DESCRIPTION



Pin No.	Pin Name	Description
1	1A	data input
2	1Y	data output
3	2A	data input
4	2Y	data output
5	3A	data input
6	3Y	data output
7	GND	ground (0V)
8	4Y	data output
9	4A	data input
10	5Y	data output
11	5A	data input
12	6Y	data output
13	6A	data input
14	VCC	supply voltage

6. FUNCTION TABLE

Input	Output
nA	nY
L	H
H	L

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

7. ELECTRICAL PARAMETER

7.1 Absolute Maximum Ratings

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

Parameter	Symbol	Conditions	Min.	Max.	Unit
supply voltage	V_{CC}	-	-0.5	+7	V
input clamping current	I_{IK}	$V_I < -0.5V$ or $V_I > V_{CC}+0.5V$	-	± 20	mA
output clamping current	I_{OK}	$V_O < -0.5V$ or $V_O > V_{CC}+0.5V$	-	± 20	mA
output current	I_O	$-0.5V < V_O < V_{CC}+0.5V$	-	± 25	mA
supply current	I_{CC}	-	-	50	mA
ground current	I_{GND}	-	-50	-	mA
total power dissipation	P_{tot}	-	-	500	mW
storage temperature	T_{stg}	-	-65	+150	°C
soldering temperature	T_L	10s	DIP	245	°C
			SOP/TSSOP	260	

7.2 Recommended Operating Conditions

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
HTC74HC14						
supply voltage	V_{CC}	-	2.0	5.0	6.0	V
input voltage	V_I	-	0	-	V_{CC}	V
output voltage	V_O	-	0	-	V_{CC}	V
ambient temperature	T_{amb}	-	-40	-	+125	°C
HTC74HCT14						
supply voltage	V_{CC}	-	4.5	5.0	5.5	V
input voltage	V_I	-	0	-	V_{CC}	V
output voltage	V_O	-	0	-	V_{CC}	V
ambient temperature	T_{amb}	-	-40	-	+125	°C

8. Electrical Characteristics

8.1 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
HTC74HC14						
HIGH-level output voltage	V_{OH}	$V_I=V_{T+}$ or V_{T-}	$I_O=-20\mu\text{A}; V_{CC}=2.0\text{V}$	1.9	2.0	- V
			$I_O=-20\mu\text{A}; V_{CC}=4.5\text{V}$	4.4	4.5	- V
			$I_O=-20\mu\text{A}; V_{CC}=6.0\text{V}$	5.9	6.0	- V
			$I_O=-4.0\text{mA}; V_{CC}=4.5\text{V}$	3.98	4.32	- V
			$I_O=-5.2\text{mA}; V_{CC}=6.0\text{V}$	5.48	5.81	- V
LOW-level output voltage	V_{OL}	$V_I=V_{T+}$ or V_{T-}	$I_O=20\mu\text{A}; V_{CC}=2.0\text{V}$	-	0	0.1 V
			$I_O=20\mu\text{A}; V_{CC}=4.5\text{V}$	-	0	0.1 V
			$I_O=20\mu\text{A}; V_{CC}=6.0\text{V}$	-	0	0.1 V
			$I_O=4.0\text{mA}; V_{CC}=4.5\text{V}$	-	0.15	0.26 V
			$I_O=5.2\text{mA}; V_{CC}=6.0\text{V}$	-	0.16	0.26 V
input leakage current	I_I	$V_I=V_{CC}$ or GND; $V_{CC}=6.0\text{V}$	-	-	± 1	μA
supply current	I_{CC}	$V_I=V_{CC}$ or GND; $I_O=0\text{A}$; $V_{CC}=6.0\text{V}$	-	-	2.0	μA
input capacitance	C_I	-	-	3.5	-	pF
HTC74HCT14						
HIGH-level output voltage	V_{OH}	$V_I=V_{T+}$ or V_{T-}	$I_O=-20\mu\text{A}; V_{CC}=4.5\text{V}$	4.4	4.5	- V
			$I_O=-4.0\text{mA}; V_{CC}=4.5\text{V}$	3.98	4.32	- V
LOW-level output voltage	V_{OL}	$V_I=V_{T+}$ or V_{T-}	$I_O=20\mu\text{A}; V_{CC}=4.5\text{V}$	-	0	0.1 V
			$I_O=4.0\text{mA}; V_{CC}=4.5\text{V}$	-	0.15	0.26 V
input leakage current	I_I	$V_I=V_{CC}$ or GND; $V_{CC}=5.5\text{V}$	-	-	± 1	μA
supply current	I_{CC}	$V_I=V_{CC}$ or GND; $I_O=0\text{A}$; $V_{CC}=5.5\text{V}$	-	-	2.0	μA
additional supply current	ΔI_{CC}	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 5.5V	-	30	108	μA
input capacitance	C_I	-	-	3.5	-	pF

8.2 DC Characteristics 2

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

Parameter	Symbol	Conditions		Min.	Typ.	Max.	Unit
HTC74HC14							
HIGH-level output voltage	V _{OH}	V _I =V _{T+} or V _{T-}	I _O =-20uA; V _{CC} =2.0V	1.9	-	-	V
			I _O =-20uA; V _{CC} =4.5V	4.4	-	-	V
			I _O =-20uA; V _{CC} =6.0V	5.9	-	-	V
			I _O =-4.0mA; V _{CC} =4.5V	3.84	-	-	V
			I _O =-5.2mA; V _{CC} =6.0V	5.34	-	-	V
LOW-level output voltage	V _{OL}	V _I =V _{T+} or V _{T-}	I _O =20uA; V _{CC} =2.0V	-	-	0.1	V
			I _O =20uA; V _{CC} =4.5V	-	-	0.1	V
			I _O =20uA; V _{CC} =6.0V	-	-	0.1	V
			I _O =4.0mA; V _{CC} =4.5V	-	-	0.33	V
			I _O =5.2mA; V _{CC} =6.0V	-	-	0.33	V
input leakage current	I _I	V _I = V _{CC} or GND; V _{CC} =6.0V		-	-	±1	uA
supply current	I _{CC}	V _I = V _{CC} or GND; I _O =0A; V _{CC} =6.0V		-	-	20	uA
HTC74HCT14							
HIGH-level output voltage	V _{OH}	V _I =V _{T+} or V _{T-}	I _O =-20uA; V _{CC} =4.5V	4.4	-	-	V
			I _O =-4.0mA; V _{CC} =4.5V	3.84	-	-	V
LOW-level output voltage	V _{OL}	V _I =V _{T+} or V _{T-}	I _O =20uA; V _{CC} =4.5V	-	-	0.1	V
			I _O =4.0mA; V _{CC} =4.5V	-	-	0.33	V
input leakage current	I _I	V _I = V _{CC} or GND; V _{CC} =5.5V		-	-	±1	uA
supply current	I _{CC}	V _I = V _{CC} or GND; I _O =0A; V _{CC} =5.5V		-	-	20	uA
additional supply current	ΔI _{CC}	per input pin; V _I =V _{CC} -2.1V; I _O =0A; other inputs at V _{CC} or GND; V _{CC} =4.5V to 5.5V		-	-	135	uA

8.3 DC Characteristics 3

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

Parameter	Symbol	Conditions		Min.	Typ.	Max.	Unit
HTC74HC14							
HIGH-level output voltage	V _{OH}	V _I =V _{T+} or V _{T-}	I _O =-20uA; V _{CC} =2.0V	1.9	-	-	V
			I _O =-20uA; V _{CC} =4.5V	4.4	-	-	V
			I _O =-20uA; V _{CC} =6.0V	5.9	-	-	V
			I _O =-4.0mA; V _{CC} =4.5V	3.88	-	-	V
			I _O =-5.2mA; V _{CC} =6.0V	5.38	-	-	V
LOW-level output voltage	V _{OL}	V _I =V _{T+} or V _{T-}	I _O =20uA; V _{CC} =2.0V	-	-	0.1	V
			I _O =20uA; V _{CC} =4.5V	-	-	0.1	V
			I _O =20uA; V _{CC} =6.0V	-	-	0.1	V
			I _O =4.0mA; V _{CC} =4.5V	-	-	0.33	V
			I _O =5.2mA; V _{CC} =6.0V	-	-	0.33	V
input leakage current	I _I	V _I = V _{CC} or GND; V _{CC} =6.0V		-	-	±1	uA
supply current	I _{CC}	V _I = V _{CC} or GND; I _O =0A; V _{CC} =6.0V		-	-	20	uA
HTC74HCT14							
HIGH-level output voltage	V _{OH}	V _I =V _{T+} or V _{T-}	I _O =-20uA; V _{CC} =4.5V	4.4	-	-	V
			I _O =-4.0mA; V _{CC} =4.5V	3.7	-	-	V
LOW-level output voltage	O _L	V _I =V _{T+} or V _{T-}	I _O =20uA; V _{CC} =4.5V	-	-	0.1	V
			I _O =4.0mA; V _{CC} =4.5V	-	-	0.4	V
input leakage current	I _I	V _I = V _{CC} or GND; V _{CC} =5.5V		-	-	±1	uA
supply current	I _{CC}	V _I = V _{CC} or GND; I _O =0A; V _{CC} =5.5V		-	-	40	uA
additional supply current	ΔI _{CC}	per input pin; V _I =V _{CC} -2.1V; I _O =0A; other inputs at V _{CC} or GND; V _{CC} =4.5V to 5.5V		-	-	147	uA

8.4 AC 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
HTC74HC14							
nA, nB to nY propagation delay	t_{PLH}, t_{PHL}	see Figure 5	$V_{CC}=2.0V$	-	41	125	ns
			$V_{CC}=4.5V$	-	15	25	ns
			$V_{CC}=5.0V; C_L=15pF$	-	12	-	ns
			$V_{CC}=6.0V$	-	12	21	ns
transition time	t_{THL}, t_{TLH}	see Figure 5	$V_{CC}=2.0V$	-	19	75	ns
			$V_{CC}=4.5V$	-	7	15	ns
			$V_{CC}=6.0V$	-	6	13	ns
HTC74HCT14							
nA, nB to nY propagation delay	t_{PLH}, t_{PHL}	see Figure 5	$V_{CC}=4.5V$	-	20	34	ns
			$V_{CC}=5.0V; C_L=15pF$	-	17	-	ns
transition time	t_{THL}, t_{TLH}	see Figure 5	$V_{CC}=4.5V$	-	7	15	ns

8.5 AC Characteristics 2

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

Parameter	Symbol	Conditions		Min.	Typ.	Max.	Unit
HTC74HC14							
nA, nB to nY propagation delay	t_{PLH}, t_{PHL}	see Figure 5	$V_{CC}=2.0V$	-	-	155	ns
			$V_{CC}=4.5V$	-	-	31	ns
			$V_{CC}=6.0V$	-	-	26	ns
transition time	t_{THL}, t_{TLH}	see Figure 5	$V_{CC}=2.0V$	-	-	95	ns
			$V_{CC}=4.5V$	-	-	19	ns
			$V_{CC}=6.0V$	-	-	15	ns
HTC74HCT14							
nA, nB to nY propagation delay	t_{PLH}, t_{PHL}	see Figure 5	$V_{CC}=4.5V$	-	-	43	ns
transition time	t_{THL}, t_{TLH}	see Figure 5	$V_{CC}=4.5V$	-	-	19	ns

8.6 AC Characteristics 3

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

Parameter	Symbol	Conditions		Min.	Typ.	Max.	Unit
HTC74HC14							
nA, nB to nY propagation delay	t_{PLH}, t_{PHL}	see Figure 5	$V_{CC}=2.0V$	-	-	190	ns
			$V_{CC}=4.5V$	-	-	38	ns
			$V_{CC}=6.0V$	-	-	32	ns
transition time	t_{THL}, t_{TLH}	see Figure 5	$V_{CC}=2.0V$	-	-	110	ns
			$V_{CC}=4.5V$	-	-	22	ns
			$V_{CC}=6.0V$	-	-	19	ns
HTC74HCT14							
nA, nB to nY propagation delay	t_{PLH}, t_{PHL}	see Figure 5	$V_{CC}=4.5V$	-	-	51	ns
transition time	t_{THL}, t_{TLH}	see Figure 5	$V_{CC}=4.5V$	-	-	22	ns

8.7 Transfer 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
HTC74HC14						
positive-going threshold voltage	V _{T+}	V _{CC} =2.0V	0.7	-	1.5	V
		V _{CC} =4.5V	1.7	-	3.15	V
		V _{CC} =6.0V	2.1	-	4.2	V
negative-going threshold voltage	V _{T-}	V _{CC} =2.0V	0.3	-	0.9	V
		V _{CC} =4.5V	0.9	-	2.0	V
		V _{CC} =6.0V	1.2	-	2.6	V
hysteresis voltage	V _H	V _{CC} =2.0V	-	0.66	-	V
		V _{CC} =4.5V	-	0.98	-	V
		V _{CC} =6.0V	-	1.25	-	V
HTC74HCT14						
positive-going threshold voltage	V _{T+}	V _{CC} =4.5V	1.2	1.41	1.9	V
		V _{CC} =5.5V	1.4	1.59	2.1	V
negative-going threshold voltage	V _{T-}	V _{CC} =4.5V	0.5	0.85	1.2	V
		V _{CC} =5.5V	0.6	0.99	1.4	V
hysteresis voltage	V _H	V _{CC} =4.5V	-	0.56	-	V
		V _{CC} =5.5V	-	0.6	-	V

8.8 Transfer Characteristics 2

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

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
HTC74HC14						
positive-going threshold voltage	V _{T+}	V _{CC} =2.0V	0.7	-	1.5	V
		V _{CC} =4.5V	1.7	-	3.15	V
		V _{CC} =6.0V	2.1	-	4.2	V
negative-going threshold voltage	V _{T-}	V _{CC} =2.0V	0.3	-	0.9	V
		V _{CC} =4.5V	0.9	-	2.0	V
		V _{CC} =6.0V	1.2	-	2.6	V
hysteresis voltage	V _H	V _{CC} =2.0V	-	0.66	-	V
		V _{CC} =4.5V	-	0.98	-	V
		V _{CC} =6.0V	-	1.25	-	V
HTC74HCT14						
positive-going threshold voltage	V _{T+}	V _{CC} =4.5V	1.2	-	1.9	V
		V _{CC} =5.5V	1.4	-	2.1	V
negative-going threshold voltage	V _{T-}	V _{CC} =4.5V	0.5	-	1.2	V
		V _{CC} =5.5V	0.6	-	1.4	V
hysteresis voltage	V _H	V _{CC} =4.5V	-	0.56	-	V
		V _{CC} =5.5V	-	0.6	-	V

8.9 Transfer Characteristics 3

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

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
HTC74HC14						
positive-going threshold voltage	V _{T+}	V _{CC} =2.0V	0.7	-	1.5	V
		V _{CC} =4.5V	1.7	-	3.15	V
		V _{CC} =6.0V	2.1	-	4.2	V
negative-going threshold voltage	V _{T-}	V _{CC} =2.0V	0.3	-	0.9	V
		V _{CC} =4.5V	0.9	-	2.0	V
		V _{CC} =6.0V	1.2	-	2.6	V
hysteresis voltage	V _H	V _{CC} =2.0V	-	0.66	-	V
		V _{CC} =4.5V	-	0.98	-	V
		V _{CC} =6.0V	-	1.25	-	V
HTC74HCT14						
positive-going threshold voltage	V _{T+}	V _{CC} =4.5V	1.2	-	1.9	V
		V _{CC} =5.5V	1.4	-	2.1	V
negative-going threshold voltage	V _{T-}	V _{CC} =4.5V	0.5	-	1.2	V
		V _{CC} =5.5V	0.6	-	1.4	V
hysteresis voltage	V _H	V _{CC} =4.5V	-	0.56	-	V
		V _{CC} =5.5V	-	0.6	-	V

9. Testing Circuit

9.1 AC Testing Circuit

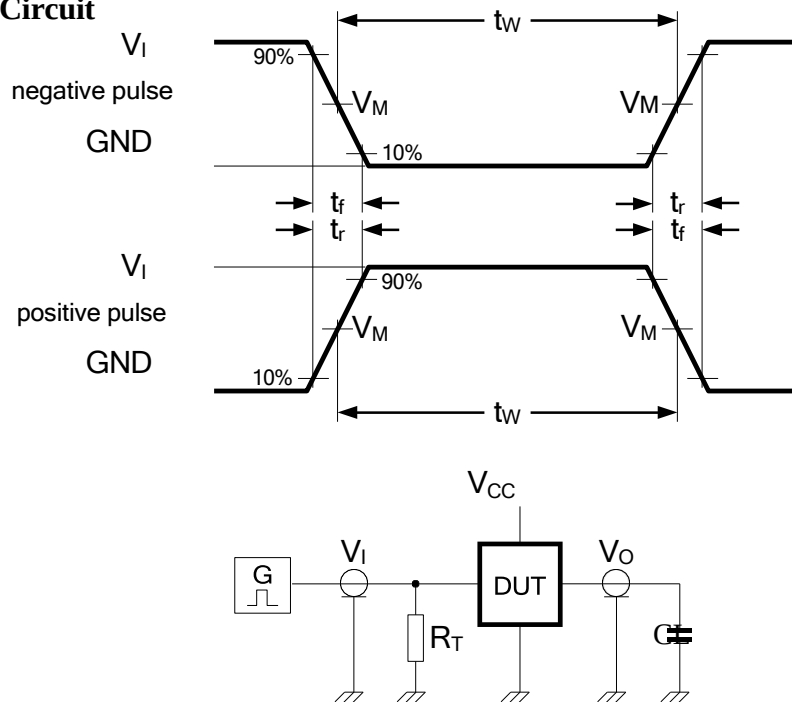


Figure 4. Test circuit for measuring switching times

Definitions for test circuit:

C_L =load capacitance including jig and probe capacitance.

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

9.2 AC Testing Waveforms

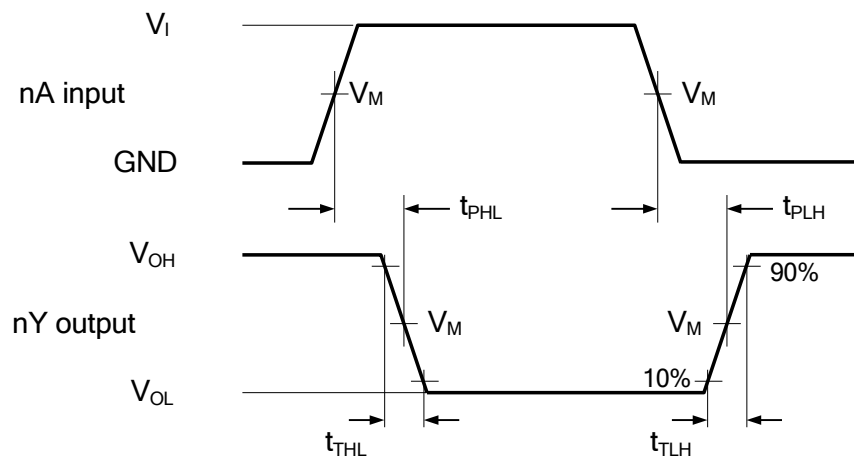


Figure 5. Input to output propagation delays

9.3 Transfer Characteristics Waveforms

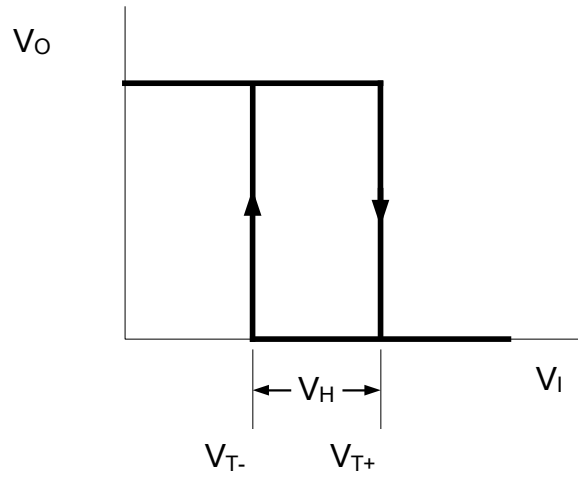


Figure 6. Transfer characteristics

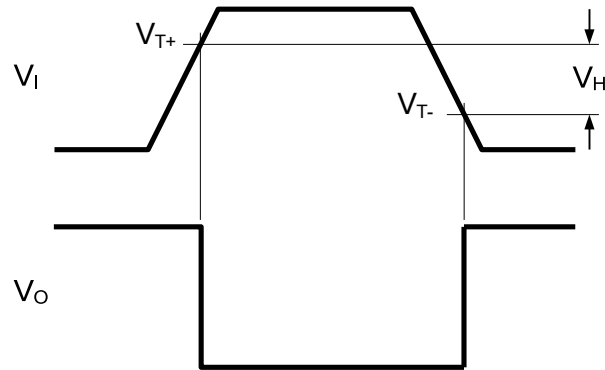


Figure 7. Transfer characteristics definitions

9.4 Measurement Points

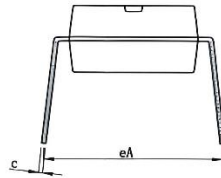
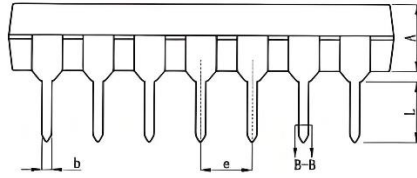
Type	Input	Output		
	V_M	V_M	V_X	V_Y
HTC74HC14	$0.5 \times V_{CC}$	$0.5 \times V_{CC}$	$0.1 \times V_{CC}$	$0.9 \times V_{CC}$
HTC74HCT14	1.3V	1.3V	$0.1 \times V_{CC}$	$0.9 \times V_{CC}$

9.5 Test Data

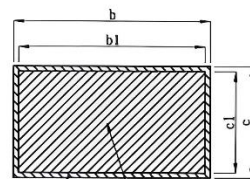
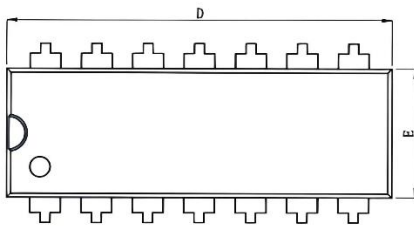
Type	Input		Load	Test
	V_I	t_r, t_f	C_L	
HTC74HC14	V_{CC}	6.0ns	15pF, 50pF	t_{PLH}, t_{PHL}
HTC74HCT14	3.0V	6.0ns	15pF, 50pF	t_{PLH}, t_{PHL}

10. Package Information

DIP 14 package information

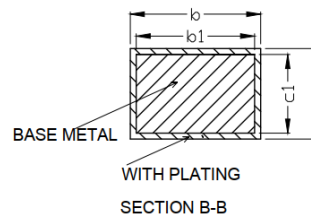
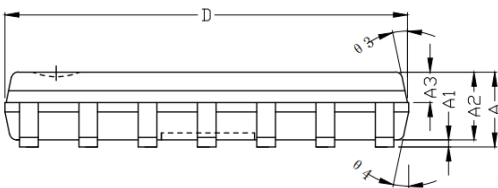
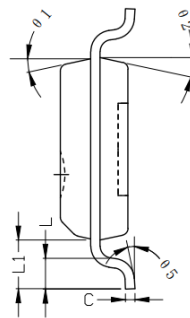
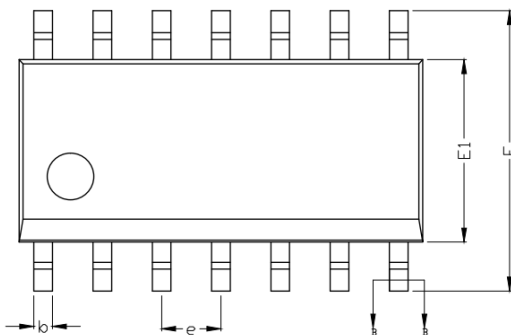


Symbol	Millimeter		
	Min	Nom	Max
A	3.20	3.30	3.40
b	0.44	---	0.53
b1	0.43	0.46	0.49
c	0.25	---	0.30
c1	0.24	0.25	0.26
D	18.95	19.05	19.15
E	6.25	6.35	6.45
e	2.54(BSC)		
eA	7.62	---	9.50
L	3.00	---	---

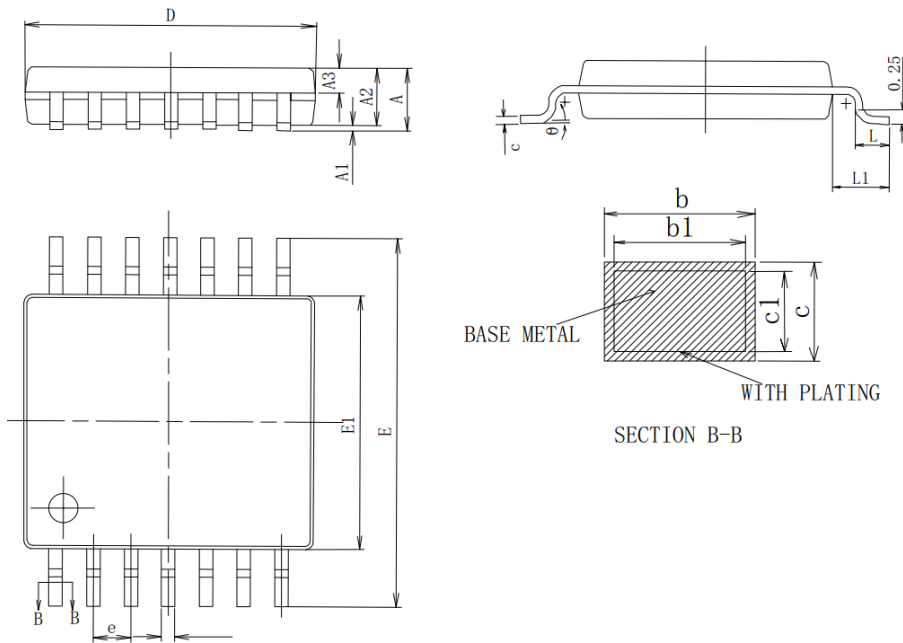


SECTION B-B

SOP 14 package information



SYMBOL	MILLIMETER		
	MIN	NOM	MAX
A	--	--	1.70
A1	0.10	0.15	0.21
A2	1.40	1.45	1.50
A3	0.60	0.65	0.70
b	0.33	--	0.47
b1	0.32	0.41	0.44
c	0.20	--	0.24
c1	0.19	0.20	0.21
D	8.45	8.60	8.75
E	5.80	6.00	6.20
E1	3.85	3.90	4.00
e	1.27(BSC)		
L	0.50	0.60	0.70
L1	1.10(BSC)		
01	8°	~	15°
02	8°	~	15°
03	8°	~	15°
04	8°	~	15°
05	0°	~	6°

TSSOP 14 package information


SYMBOL	MILLIMETER		
	MIN	NOM	MAX
A	—	—	1.20
A1	0.05	—	0.15
A2	0.90	1.00	1.05
A3	0.39	0.44	0.49
b	0.20	—	0.28
b1	0.19	0.22	0.25
c	0.13	—	0.17
c1	0.12	0.13	0.14
D	4.90	5.00	5.10
E1	4.30	4.40	4.50
E	6.20	6.40	6.60
e	0.65BSC		
L	0.45	0.60	0.75
L1	1.00BSC		
θ	0	—	8°

11. Statements And Notes

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.									

12. REVISION HISTORY

 海速芯（杭州）科技有限公司 Hitenx(hanghou)Technology co.,Ltd		Total page	17
		Rev.	V0.91
File Name	DS-HTC74HC14_EV091		
Edition number	Effective date	Summary of revised contents	
V0.90	2025/05/13	New Release	
V0.91	2025/05/30	Parameter modification	