



CD74HC73/HCT73 (LX)

Dual JK Flip-Flop with Reset; Negative-Edge Trigger

Product Specification

Specification Revision History:

Version	Date	Description
2023-12-A0	2023-12	New
2024-03-A1	2024-03	Modify the parameters



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1、General Description

The CD74HC/HCT73 is dual negative-edge triggered JK-type flip-flops featuring individual J, K, clock ($\bar{C}P$) and reset ($\bar{n}R$) inputs; also complementary Q and \bar{Q} outputs.

Features:

- Supply voltage range:
CD74HC73: 2V to 6V
CD74HCT73: 4.5V to 5.5V
- Input levels:
CD74HC73: CMOS level
CD74HCT73: TTL level
- Temperature range: -40°C to +125°C
- Packaging information: DIP14/SOP14

Ordering Information:

Tube packing specifications:

Part number	Packaging form	Marking code	Tube quantity	Boxed tube quantity	Boxed quantity	Notes
CD74HC73E(LX)	DIP14	CD74HC73E	25 PCS/tube	40 tube/box	1000 PCS/box	Dimensions of plastic enclosure: 19.0mm×6.4mm Pin spacing: 2.54mm
CD74HCT73E(LX)	DIP14	CD74HCT73E	25 PCS/tube	40 tube/box	1000 PCS/box	Dimensions of plastic enclosure: 19.0mm×6.4mm Pin spacing: 2.54mm
CD74HC73M(LX)	SOP14	HC73M	50 PCS/tube	200 tube/box	10000 PCS/box	Dimensions of plastic enclosure: 8.7mm×3.9mm Pin spacing: 1.27mm
CD74HCT73M(LX)	SOP14	HCT73M	50 PCS/tube	200 tube/box	10000 PCS/box	Dimensions of plastic enclosure: 8.7mm×3.9mm Pin spacing: 1.27mm



Reel packing specifications:

Part number	Packaging form	Marking code	Reel quantity	Boxed reel quantity	Notes
CD74HC73M(LX)	SOP14	HC73M	4000 PCS/reel	8000 PCS/box	Dimensions of plastic enclosure: 8.7mm×3.9mm Pin spacing: 1.27mm
CD74HCT73M(LX)	SOP14	HCT73M	4000 PCS/reel	8000 PCS/box	Dimensions of plastic enclosure: 8.7mm×3.9mm Pin spacing: 1.27mm

Note: 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

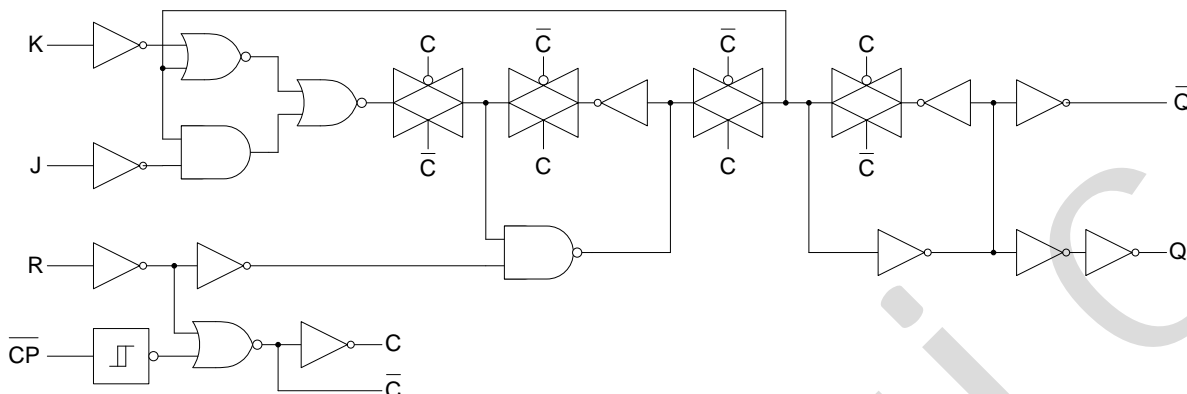


Figure 1. Logic symbol

2.2、Pin Configurations

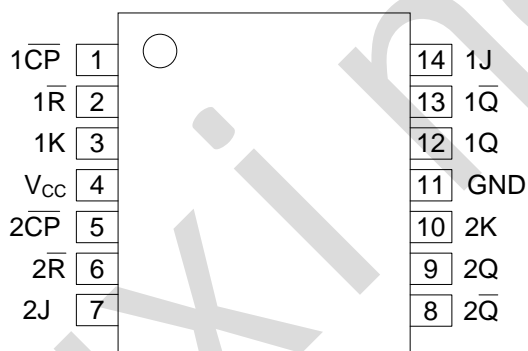


Figure 2. Pin Configurations

2.3、Pin Description

Pin No.	Pin Name	Description
1	1CP	clock input (HIGH-to-LOW edge-triggered)
2	1R	asynchronous reset input (active LOW)
3	1K	synchronous K input
4	V _{CC}	supply voltage
5	2CP	clock input (HIGH-to-LOW edge-triggered)
6	2R	asynchronous reset input (active LOW)
7	2J	synchronous J input
8	2Q _̄	complement output
9	2Q	true output
10	2K	synchronous K input
11	GND	ground (0V)
12	1Q	true output
13	1Q _̄	complement output
14	1J	synchronous J input



2.4、Function Table

Input				Output		Operating mode
\overline{nR}	\overline{nCP}	nJ	nK	nQ	\overline{nQ}	
L	X	X	X	L	H	asynchronous reset
H	↓	h	h	\overline{q}	q	toggle
H	↓	l	h	L	H	load 0 (reset)
H	↓	h	l	H	L	load 1 (set)
H	↓	l	l	q	\overline{q}	hold (no change)

Notes:

H = HIGH voltage level;

h = HIGH voltage level one set-up time prior to the HIGH-to-LOW clock transition;

L = LOW voltage level;

l = LOW voltage level one set-up time prior to the HIGH-to-LOW clock transition;

q = state of referenced output one set-up time prior to the HIGH-to-LOW clock transition;

X = don't care;

↓ = HIGH-to-LOW clock transition.

3、Electrical Parameter

3.1、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
supply current	I_{CC}	-	-	50	mA
ground current	I_{GND}	-	-50	-	mA
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
storage temperature	T_{stg}	-	-65	+150	°C
soldering temperature	T_L	10s	DIP		°C
			SOP/TSSOP		
			245		
			260		

3.2、Recommended Operating Conditions

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
CD74HC73						
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
CD74HCT73						
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



3.3、Electrical Characteristics

3.3.1、DC Characteristics 1

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

Parameter	Symbol	V _{CC}	Conditions	Min.	Typ.	Max.	Unit
CD74HC73							
HIGH-level input voltage	V _{IH}	2.0V	-	1.5	1.2	-	V
		4.5V	-	3.15	2.4	-	V
		6.0V	-	4.2	3.2	-	V
LOW-level input voltage	V _{IL}	2.0V	-	-	0.8	0.5	V
		4.5V	-	-	2.1	1.35	V
		6.0V	-	-	2.8	1.8	V
HIGH-level output voltage	V _{OH}	2.0V	I _O =-20uA	1.9	2.0	-	V
		4.5V	I _O =-20uA	4.4	4.5	-	V
		6.0V	I _O =-20uA	5.9	6.0	-	V
		4.5V	I _O =-4.0mA	3.84	4.32	-	V
		6.0V	I _O =-5.2mA	5.34	5.81	-	V
LOW-level output voltage	V _{OL}	2.0V	I _O =20uA	-	0	0.1	V
		4.5V	I _O =20uA	-	0	0.1	V
		6.0V	I _O =20uA	-	0	0.1	V
		4.5V	I _O =4.0mA	-	0.15	0.33	V
		6.0V	I _O =5.2mA	-	0.16	0.33	V
input leakage current	I _I	6.0V	V _I =V _{CC} or GND	-	-	±1	uA
supply current	I _{CC}	6.0V	V _I =V _{CC} or GND; I _O =0A	-	-	80	uA
CD74HCT73							
HIGH-level input voltage	V _{IH}	4.5~5.5V	-	2.0	1.6	-	V
LOW-level input voltage	V _{IL}	4.5~5.5V	-	-	1.2	0.8	V
HIGH-level output voltage	V _{OH}	4.5V	I _O =-20uA	4.4	4.5	-	V
			I _O =-4.0mA	3.84	4.32	-	V
LOW-level output voltage	V _{OL}	4.5V	I _O =20uA	-	0	0.1	V
			I _O =4.0mA	-	0.15	0.33	V
input leakage current	I _I	5.5V	V _I =V _{CC} or GND	-	-	±1	uA
supply current	I _{CC}	5.5V	V _I =V _{CC} or GND; I _O =0A	-	-	80	uA
additional supply current	ΔI _{CC}	4.5~5.5V	One input at V _I =V _{CC} -2.1V; Other inputs at V _{CC} or GND; I _O =0A	-	-	135	uA



3.3.2、DC Characteristics 2

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

Parameter	Symbol	V _{CC}	Conditions	Min.	Typ.	Max.	Unit
CD74HC73							
HIGH-level input voltage	V _{IH}	2.0V	-	1.5	-	-	V
		4.5V	-	3.15	-	-	V
		6.0V	-	4.2	-	-	V
LOW-level input voltage	V _{IL}	2.0V	-	-	-	0.5	V
		4.5V	-	-	-	1.35	V
		6.0V	-	-	-	1.8	V
HIGH-level output voltage	V _{OH}	2.0V	I _O =-20uA	1.9	-	-	V
		4.5V	I _O =-20uA	4.4	-	-	V
		6.0V	I _O =-20uA	5.9	-	-	V
		4.5V	I _O =-4.0mA	3.7	-	-	V
		6.0V	I _O =-5.2mA	5.2	-	-	V
LOW-level output voltage	V _{OL}	2.0V	I _O =20uA	-	-	0.1	V
		4.5V	I _O =20uA	-	-	0.1	V
		6.0V	I _O =20uA	-	-	0.1	V
		4.5V	I _O =4.0mA	-	-	0.4	V
		6.0V	I _O =5.2mA	-	-	0.4	V
input leakage current	I _I	6.0V	V _I =V _{CC} or GND	-	-	±1	uA
supply current	I _{CC}	6.0V	V _I =V _{CC} or GND; I _O =0A	-	-	160	uA
CD74HCT73							
HIGH-level input voltage	V _{IH}	4.5~5.5V	-	2.0	-	-	V
LOW-level input voltage	V _{IL}	4.5~5.5V	-	-	-	0.8	V
HIGH-level output voltage	V _{OH}	4.5V	I _O =-20uA	4.4	-	-	V
			I _O =-4.0mA	3.7	-	-	V
LOW-level output voltage	V _{OL}	4.5V	I _O =20uA	-	-	0.1	V
			I _O =4.0mA	-	-	0.4	V
input leakage current	I _I	5.5V	V _I =V _{CC} or GND	-	-	±1	uA
supply current	I _{CC}	5.5V	V _I =V _{CC} or GND; I _O =0A	-	-	160	uA
additional supply current	ΔI _{CC}	4.5~5.5V	One input at V _I =V _{CC} -2.1V; Other inputs at V _{CC} or GND; I _O =0A	-	-	147	uA



3.3.3、AC Characteristics 1

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

Parameter	Symbol	V _{CC}	Conditions	Min.	Typ.	Max.	Unit	
CD74HC73								
nCP to nQ propagation delay		2.0V	C _L =50pF	see Figure 4	-	52	160	ns
		4.5V	C _L =50pF		-	19	32	ns
		5.0V	C _L =15pF		-	16	-	ns
		6.0V	C _L =50pF		-	15	27	ns
nCP to nQ propagation delay	t _{PLH} , t _{PHL}	2.0V	C _L =50pF	see Figure 4	-	52	200	ns
		4.5V	C _L =50pF		-	19	40	ns
		5.0V	C _L =15pF		-	16	-	ns
		6.0V	C _L =50pF		-	15	34	ns
nR to nQ/nQ propagation delay		2.0V	C _L =50pF	see Figure 5	-	52	195	ns
		4.5V	C _L =50pF		-	19	39	ns
		5.0V	C _L =15pF		-	16	-	ns
		6.0V	C _L =50pF		-	15	26	ns
nQ/nQ transition time	t _{THL} , t _{TLH}	2.0V	C _L =50pF	see Figure 4	-	19	95	ns
		4.5V	C _L =50pF		-	7	19	ns
		6.0V	C _L =50pF		-	6	16	ns
nCP input HIGH or LOW pulse width	tw	2.0V	C _L =50pF	see Figure 4	100	22	-	ns
		4.5V	C _L =50pF		20	8	-	ns
		6.0V	C _L =50pF		17	6	-	ns
nR input, HIGH pulse width		2.0V	C _L =50pF	see Figure 5	100	22	-	ns
		4.5V	C _L =50pF		20	8	-	ns
		6.0V	C _L =50pF		17	6	-	ns
nR to nCP recovery time	trec	2.0V	C _L =50pF	see Figure 5	75	19	-	ns
		4.5V	C _L =50pF		15	7	-	ns
		6.0V	C _L =50pF		13	6	-	ns
nJ,nK to nCP set-up time	tsu	2.0V	C _L =50pF	see Figure 4	125	22	-	ns
		4.5V	C _L =50pF		25	8	-	ns
		6.0V	C _L =50pF		21	6	-	ns
nJ,nK to nCP hold time	th	2.0V	C _L =50pF	see Figure 4	3	-6	-	ns
		4.5V	C _L =50pF		3	-2	-	ns
		6.0V	C _L =50pF		3	-2	-	ns
maximum clock frequency	fmax	2.0V	C _L =50pF	see Figure 4	4.8	30	-	MHz
		4.5V	C _L =50pF		24	91	-	MHz
		6.0V	C _L =50pF		28	108	-	MHz
CD74HCT73								
nCP to nQ propagation delay		4.5V	C _L =50pF	see Figure 4	-	19	45	ns
		5.0V	C _L =15pF		-	16	-	ns
nCP to nQ propagation delay	t _{PLH} , t _{PHL}	4.5V	C _L =50pF	see Figure 4	-	21	45	ns
		5.0V	C _L =15pF		-	18	-	ns
nR to nQ/nQ		4.5V	C _L =50pF	see Figure 5	-	20	48	ns



propagation delay		5.0V	$C_L=15\text{pF}$			17	-	ns
transition time	$t_{\text{THL}}, t_{\text{TLH}}$	4.5V	$C_L=50\text{pF}$	see Figure 4	-	7	15	ns
nCP HIGH or LOW pulse width	tw	4.5V	$C_L=50\text{pF}$	see Figure 4	20	9	-	ns
nR HIGH pulse width		4.5V	$C_L=50\text{pF}$	see Figure 5	25	11	-	ns
nR to nCP recovery time	trec	4.5V	$C_L=50\text{pF}$	see Figure 5	18	8	-	ns
nJ/nQ to nCP set-up time	tsu	4.5V	$C_L=50\text{pF}$	see Figure 4	25	7	-	ns
nJ/nQ to nCP hold time	th	4.5V	$C_L=50\text{pF}$	see Figure 4	5	-2	-	ns
maximum clock frequency	fmax	4.5V	$C_L=50\text{pF}$	see Figure 4	24	66	-	MHz

3.3.4、AC Characteristics 2

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

Parameter	Symbol	V_{CC}	Conditions	Min.	Typ.	Max.	Unit	
CD74HC73								
nCP to nQ propagation delay	$t_{\text{PLH}}, t_{\text{PHL}}$	2.0V	$C_L=50\text{pF}$	see Figure 4	-	-	240	ns
		4.5V	$C_L=50\text{pF}$		-	-	48	ns
		6.0V	$C_L=50\text{pF}$		-	-	41	ns
nCP to nQ propagation delay		2.0V	$C_L=50\text{pF}$	see Figure 4	-	-	240	ns
		4.5V	$C_L=50\text{pF}$		-	-	48	ns
		6.0V	$C_L=50\text{pF}$		-	-	41	ns
nR to nQ/nQ propagation delay		2.0V	$C_L=50\text{pF}$	see Figure 5	-	-	235	ns
		4.5V	$C_L=50\text{pF}$		-	-	47	ns
		6.0V	$C_L=50\text{pF}$		-	-	40	ns
nQ/nQ transition time	2.0V	$C_L=50\text{pF}$	see Figure 4	-	-	110	ns	
	4.5V	$C_L=50\text{pF}$		-	-	22	ns	
	6.0V	$C_L=50\text{pF}$		-	-	19	ns	
nCP input HIGH or LOW pulse width	tw	2.0V	$C_L=50\text{pF}$	see Figure 4	120	-	-	ns
		4.5V	$C_L=50\text{pF}$		24	-	-	ns
		6.0V	$C_L=50\text{pF}$		20	-	-	ns
nR input, HIGH pulse width		2.0V	$C_L=50\text{pF}$	see Figure 5	120	-	-	ns
		4.5V	$C_L=50\text{pF}$		24	-	-	ns
		6.0V	$C_L=50\text{pF}$		20	-	-	ns
nR to nCP recovery time		2.0V	$C_L=50\text{pF}$	see Figure 5	90	-	-	ns
		4.5V	$C_L=50\text{pF}$		18	-	-	ns
		6.0V	$C_L=50\text{pF}$		15	-	-	ns
nJ,nK to nCP set-up time	tsu	2.0V	$C_L=50\text{pF}$	see Figure 4	150	-	-	ns
		4.5V	$C_L=50\text{pF}$		30	-	-	ns



		6.0V	$C_L=50\text{pF}$		26	-	-	ns
nJ,nK to nCP hold time	th	2.0V	$C_L=50\text{pF}$	see Figure 4	3	-	-	ns
		4.5V	$C_L=50\text{pF}$		3	-	-	ns
		6.0V	$C_L=50\text{pF}$		3	-	-	ns
maximum clock frequency	fmax	2.0V	$C_L=50\text{pF}$	see Figure 4	4.0	-	-	MHz
		4.5V	$C_L=50\text{pF}$		20	-	-	MHz
		6.0V	$C_L=50\text{pF}$		24	-	-	MHz
CD74HCT73								
nCP to nQ propagation delay	t_{PLH}, t_{PHL}	4.5V	$C_L=50\text{pF}$	see Figure 4	-	-	54	ns
nCP to nQ propagation delay		4.5V	$C_L=50\text{pF}$		-	-	54	ns
nR to nQ/nQ propagation delay		4.5V	$C_L=50\text{pF}$	see Figure 5	-	-	57	ns
transition time	t_{THL}, t_{TLH}	4.5V	$C_L=50\text{pF}$	see Figure 4	-	-	22	ns
nCP HIGH or LOW pulse width	tw	4.5V	$C_L=50\text{pF}$	see Figure 4	24	-	-	ns
nR HIGH pulse width		4.5V	$C_L=50\text{pF}$	see Figure 5	30	-	-	ns
nR to nCP recovery time	trec	4.5V	$C_L=50\text{pF}$	see Figure 5	21	-	-	ns
nJ/nQ to nCP set-up time	tsu	4.5V	$C_L=50\text{pF}$	see Figure 4	30	-	-	ns
nJ/nQ to nCP hold time	th	4.5V	$C_L=50\text{pF}$	see Figure 4	5	-	-	ns
maximum clock frequency	fmax	4.5V	$C_L=50\text{pF}$	see Figure 4	20	-	-	MHz

4、Testing Circuit

4.1、AC Testing Circuit

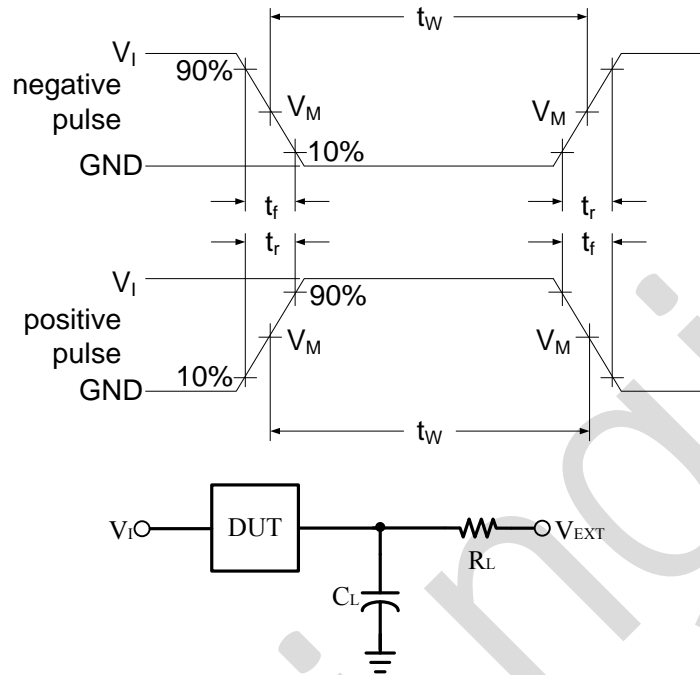


Figure 3. Test circuit for measuring switching times

C_L includes probe and jig capacitance.

4.2、Test Data

Type	Input		Load		V_{EXT}		
	V_I	$t_r = t_f$	C_L	R_L	t_{PLH}/t_{PHL}	t_{PLZ}/t_{PZL}	t_{PHZ}/t_{PZH}
CD74HC73	V_{CC}	3.0ns	15pF, 50pF	1K Ω	Open	V_{CC}	GND
CD74HCT73	3.0V	3.0ns	15pF, 50pF	1K Ω	Open	V_{CC}	GND



4.3、AC Testing Waveforms

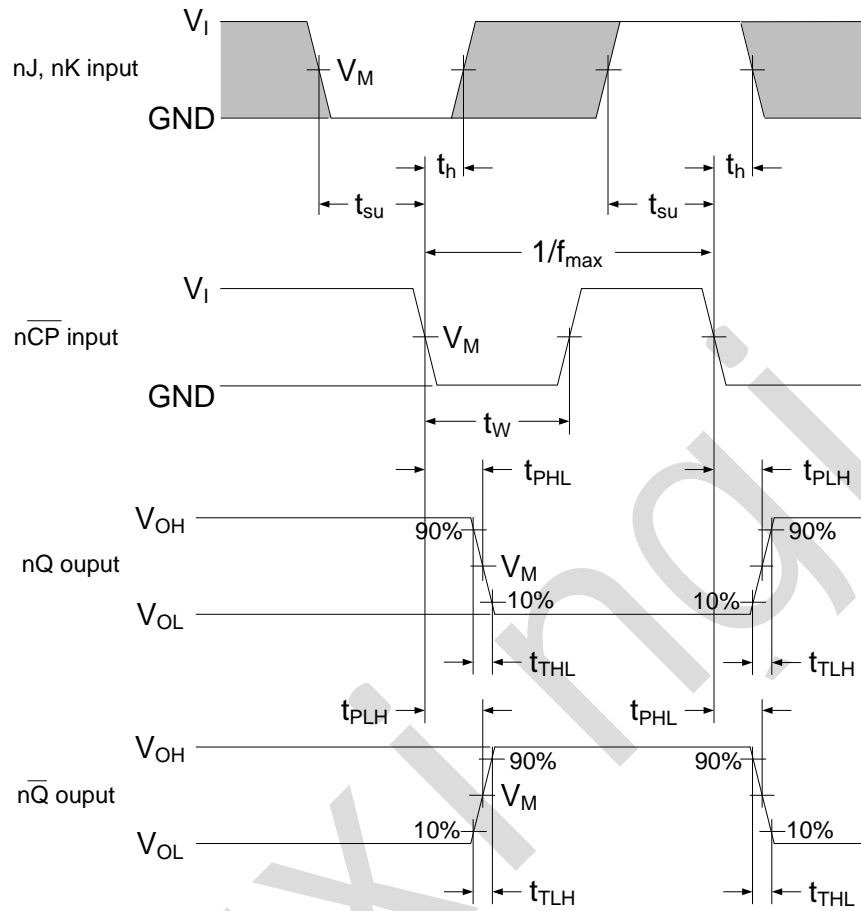


Figure 4. Clock propagation delays, pulse width, set-up and hold times, output transition times and the maximum frequency

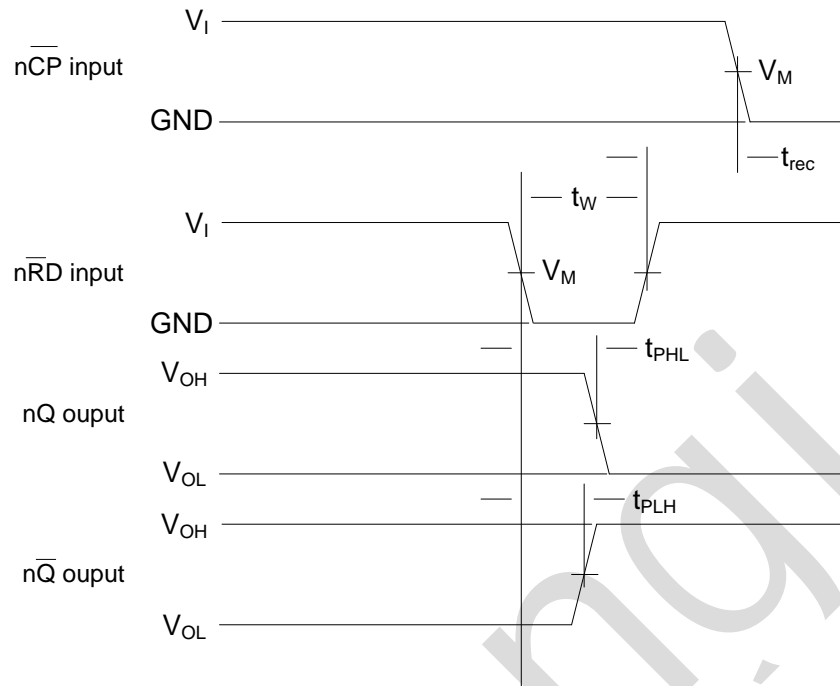


Figure 5. Reset propagation delays, pulse width and recovery time

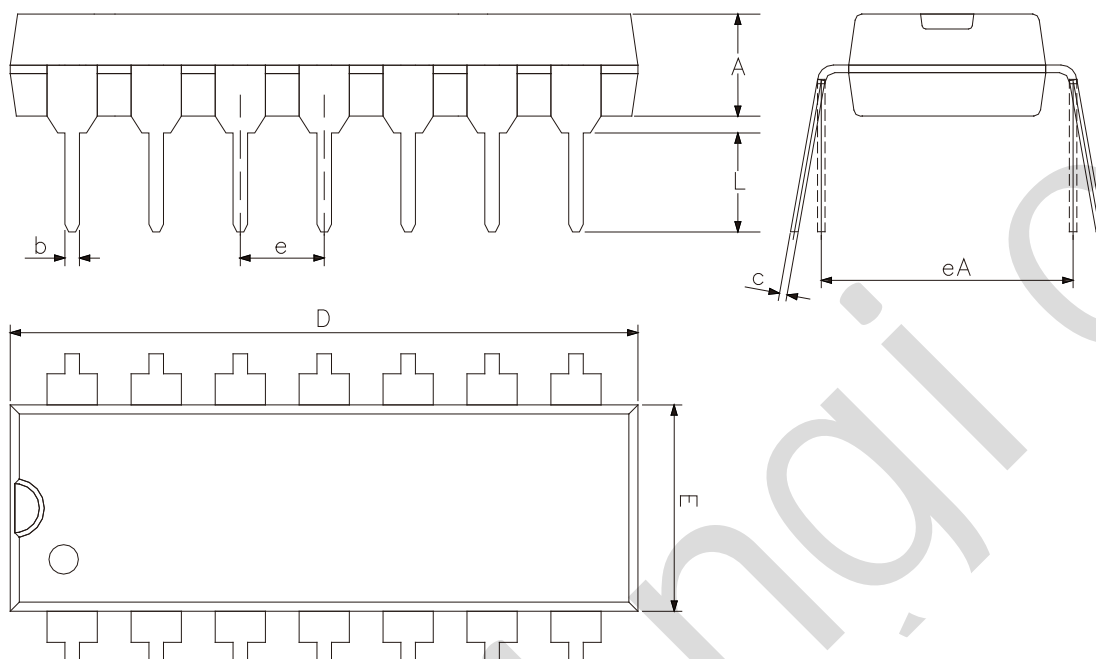
4.4. Measurement Points

Type	Input	Output
	V_M	V_M
CD74HC73	$0.5 \times V_{CC}$	$0.5 \times V_{CC}$
CD74HCT73	1.3V	1.3V



5、Package Information

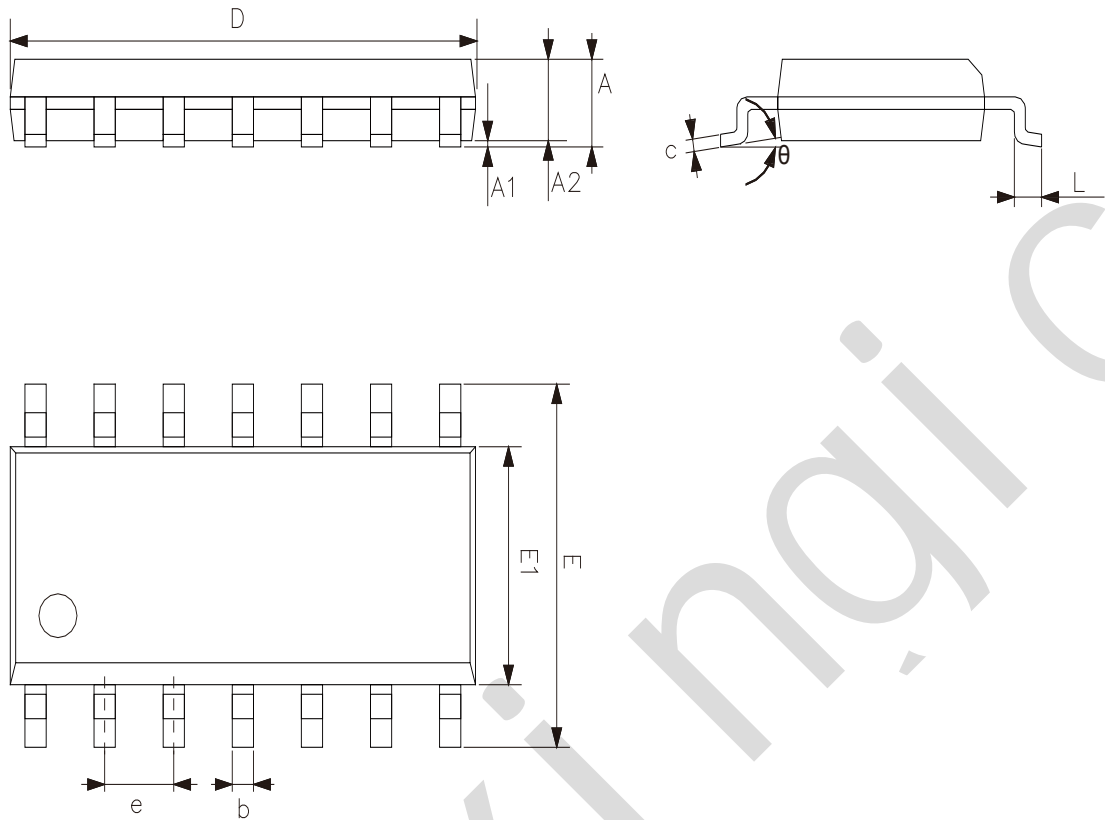
5.1、DIP14



2023/12/A	Dimensions In Millimeters	
Symbol	Min	Max
A	3.05	3.60
b	0.33	0.56
c	0.20	0.36
D	18.80	19.40
E	6.20	6.60
e	2.54	
eA	7.62	10.90
L	2.92	—



5.2、SOP14



2023/12/A	Dimensions In Millimeters	
Symbol	Min.	Max.
A	1.50	1.75
A1	0.05	0.25
A2	1.30	—
b	0.33	0.50
c	0.19	0.25
D	8.43	8.76
E	5.80	6.25
E1	3.75	4.00
e	1.27	
L	0.40	0.89
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

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