



# SN74HC/HCT174 (LX) Hex D-type Flip-flop with Reset; Positive-edge Trigger

## Product Specification

### Specification Revision History:

Version	Date	Description
2023-05-A1	2023-05	New



# Contents

<b>1、 General Description.....</b>	<b>3</b>
<b>2、 Block Diagram And Pin Description .....</b>	<b>5</b>
2.1、 Block Diagram .....	5
2.2、 Pin Configurations.....	5
2.3、 Pin Description .....	6
2.4、 Function Table.....	6
<b>3、 Electrical Parameter .....</b>	<b>7</b>
3.1、 Absolute Maximum Ratings.....	7
3.2、 Recommended Operating Conditions .....	7
3.3、 Electrical Characteristics .....	7
3.3.1、 DC Characteristics 1 .....	7
3.3.2、 DC Characteristics 2 .....	8
3.3.3、 AC Characteristics 1 .....	9
3.3.4、 AC Characteristics 2 .....	10
<b>4、 Testing Circuit .....</b>	<b>12</b>
4.1、 AC Testing Circuit .....	12
4.2、 Test Data .....	12
4.3、 AC Testing Waveforms.....	13
4.4、 Measurement Points .....	13
<b>5、 Package Information .....</b>	<b>14</b>
5.1、 DIP16 .....	14
5.2、 SOP16 .....	15
5.3、 TSSOP16.....	16
<b>6、 Statements And Notes .....</b>	<b>17</b>
6.1、 The name and content of Hazardous substances or Elements in the product .....	17
6.2、 Notes .....	17



## 1、General Description

The SN74HC/HCT174 is a hex positive edge-triggered D-type flip-flop with individual data inputs (Dn) and outputs (Qn).

### Features:

- Supply voltage range:
- SN74HC174: 2V to 6V
- SN74HCT174: 4.5V to 5.5V

### Input levels:

- SN74HC174: CMOS level
- SN74HCT174: TTL level
- Temperature range: -40°C to +125°C
- Packaging information: DIP16/SOP16/TSSOP16

### Ordering Information:

#### Tube packing specifications:

Part number	Packaging form	Marking code	Tube quantity	Boxed tube quantity	Boxed quantity	Notes
SN74HC174N (LX)	DIP16	SN74HC174N	25 PCS/tube	40 tube/box	1000 PCS/box	Dimensions of plastic enclosure: 19.0mm×6.4mm Pin spacing: 2.54mm
SN74HCT174N (LX)	DIP16	SN74HCT174N	25 PCS/tube	40 tube/box	1000 PCS/box	Dimensions of plastic enclosure: 19.0mm×6.4mm Pin spacing: 2.54mm
SN74HC174D (LX)	SOP16	74HC174	50 PCS/tube	200 tube/box	10000 PCS/box	Dimensions of plastic enclosure: 10.0mm×3.9mm Pin spacing: 1.27mm
SN74HCT174D (LX)	SOP16	74HCT174	50 PCS/tube	200 tube/box	10000 PCS/box	Dimensions of plastic enclosure: 10.0mm×3.9mm Pin spacing: 1.27mm
SN74HC174PW (LX)	TSSOP16	74HC174	96 PCS/tube	200 tube/box	19200 PCS/box	Dimensions of plastic enclosure: 5.0mm×4.4mm Pin spacing: 0.65mm
SN74HCT174PW (LX)	TSSOP16	74HCT174	96 PCS/tube	200 tube/box	19200 PCS/box	Dimensions of plastic enclosure: 5.0mm×4.4mm Pin spacing: 0.65mm



## Reel packing specifications:

Part number	Packaging form	Marking code	Reel quantity	Boxed reel quantity	Notes
SN74HC174DR (LX)	SOP16	HC174	2500 PCS/reel	5000 PCS/box	Dimensions of plastic enclosure: 10.0mm×3.9mm Pin spacing: 1.27mm
SN74HCT174DR (LX)	SOP16	HCT174	2500 PCS/reel	5000 PCS/box	Dimensions of plastic enclosure: 10.0mm×3.9mm Pin spacing: 1.27mm
SN74HC174PWR (LX)	TSSOP16	74HC174	5000 PCS/reel	10000 PCS/box	Dimensions of plastic enclosure: 5.0mm×4.4mm Pin spacing: 0.65mm
SN74HCT174PWR (LX)	TSSOP16	74HCT174	5000 PCS/reel	10000 PCS/box	Dimensions of plastic enclosure: 5.0mm×4.4mm Pin spacing: 0.65mm

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

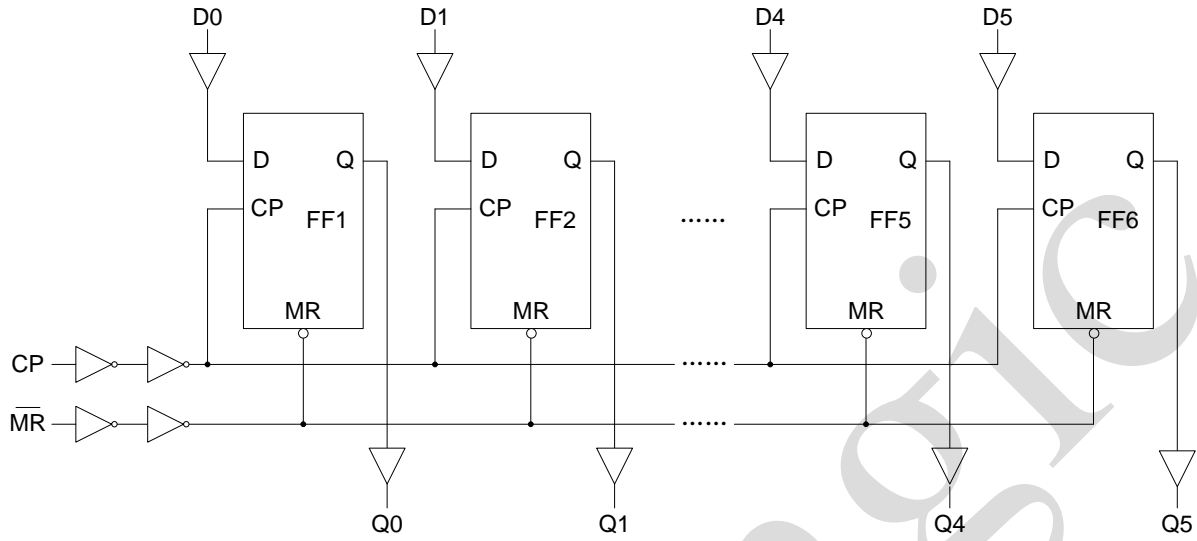


Figure 1. Logic diagram

### 2.2、Pin Configurations

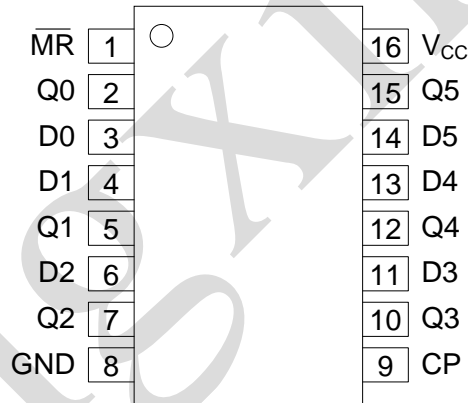


Figure 2. Pin configurations



### 2.3、Pin Description

Pin No.	Pin Name	Description
1	$\overline{\text{MR}}$	asynchronous master reset input (active LOW)
2	Q0	data output
3	D0	data input
4	D1	data input
5	Q1	data output
6	D2	data input
7	Q2	data output
8	GND	ground (0V)
9	CP	clock input (LOW-to-HIGH edge-triggered)
10	Q3	data output
11	D3	data input
12	Q4	data output
13	D4	data input
14	D5	data input
15	Q5	data output
16	V <sub>CC</sub>	supply voltage

### 2.4、Function Table

Input		Output	
$\overline{\text{MR}}$	CP	Dn	Qn
L	X	X	L
H	↑	h	H
H	↑	l	L

Note:

H=HIGH voltage level;

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

L=LOW voltage level;

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

X=don't care;

↑=LOW-to-HIGH 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 $V_I > V_{CC}+0.5V$	-	$\pm 20$	mA
output clamping current	$I_{OK}$	$V_O < -0.5V$ or $V_O > V_{CC}+0.5V$	-	$\pm 20$	mA
output current	$I_O$	$-0.5V < V_O < V_{CC}+0.5V$	-	$\pm 25$	mA
storage temperature	$T_{stg}$	-	-65	+150	$^{\circ}C$
soldering temperature	$T_L$	10s	DIP	245	$^{\circ}C$
			SOP/TSSOP	260	

#### 3.2、Recommended Operating Conditions

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
<b>SN74HC174</b>						
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	$^{\circ}C$
<b>SN74HCT174</b>						
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	$^{\circ}C$

#### 3.3、Electrical Characteristics

##### 3.3.1、DC Characteristics 1

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

Parameter	Symbol	$V_{CC}$	Conditions	Min.	Typ.	Max.	Unit
<b>SN74HC174</b>							
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	$I_O = -20\mu A$	1.9	2.0	-	V
		4.5V	$I_O = -20\mu A$	4.4	4.5	-	V
		6.0V	$I_O = -20\mu A$	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	$V_{OL}$	2.0V	$I_O = 20\mu A$	-	0	0.1	V



output voltage		4.5V	$I_O=20\mu A$	-	0	0.1	V
		6.0V	$I_O=20\mu A$	-	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	-	-	$\pm 1$	$\mu A$
supply current	$I_{CC}$	6.0V	$V_I=V_{CC}$ or GND; $I_O=0A$	-	-	80	$\mu A$
<b>SN74HC174</b>							
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	$I_O=-20\mu A$	4.4	4.5	-	V
			$I_O=-4.0mA$	3.84	4.32	-	V
LOW-level output voltage	$V_{OL}$	4.5V	$I_O=20\mu A$	-	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	-	-	$\pm 1$	$\mu A$
supply current	$I_{CC}$	6.0V	$V_I=V_{CC}$ or GND; $I_O=0A$	-	-	80	$\mu A$
additional supply current	$\Delta I_{CC}$	4.5~5.5V	One input at $V_I=V_{CC}-2.1V$ ; Other inputs at $V_{CC}$ or GND; $I_O=0A$	-	-	500	$\mu A$

3.3.2、DC Characteristics 2

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

Parameter	Symbol	$V_{CC}$	Conditions	Min.	Typ.	Max.	Unit
<b>SN74HC174</b>							
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	$I_O=-20\mu A$	1.9	-	-	V
		4.5V	$I_O=-20\mu A$	4.4	-	-	V
		6.0V	$I_O=-20\mu A$	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	$I_O=20\mu A$	-	-	0.1	V
		4.5V	$I_O=20\mu A$	-	-	0.1	V
		6.0V	$I_O=20\mu A$	-	-	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	-	-	$\pm 1$	$\mu A$
supply current	$I_{CC}$	6.0V	$V_I=V_{CC}$ or GND; $I_O=0A$	-	-	160	$\mu A$
<b>SN74HCT174</b>							





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	$I_O=-20\mu A$	4.4	-	-	V
			$I_O=-4.0mA$	3.7	-	-	V
LOW-level output voltage	$V_{OL}$	4.5V	$I_O=20\mu A$	-	-	0.1	V
			$I_O=4.0mA$	-	-	0.4	V
input leakage current	$I_I$	5.5V	$V_I=V_{CC}$ or GND	-	-	$\pm 1$	$\mu A$
supply current	$I_{CC}$	6.0V	$V_I=V_{CC}$ or GND; $I_O=0A$	-	-	160	$\mu A$
additional supply current	$\Delta I_{CC}$	4.5~5.5V	One input at $V_I=V_{CC}-2.1V$ ; Other inputs at $V_{CC}$ or GND; $I_O=0A$	-	-	500	$\mu A$

### 3.3.3、AC Characteristics 1

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

Parameter	Symbol	$V_{CC}$	Conditions	Min.	Typ.	Max.	Unit	
<b>SN74HC174</b>								
CP to Qn propagation delay	$t_{PLH}, t_{PHL}$	2.0V	$C_L=50pF$	see Figure 4	-	55	205	ns
		4.5V	$C_L=50pF$		-	20	41	ns
		5.0V	$C_L=15pF$		-	17	-	ns
		6.0V	$C_L=50pF$		-	16	35	ns
MR to Qn HIGH to LOW propagation delay	$t_{PHL}$	2.0V	$C_L=50pF$	see Figure 5	-	44	190	ns
		4.5V	$C_L=50pF$		-	16	38	ns
		5V	$C_L=15pF$		-	13	-	ns
		6.0V	$C_L=50pF$		-	13	33	ns
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
CP input HIGH or LOW pulse width	$t_w$	2.0V	$C_L=50pF$	see Figure 4	100	17	-	ns
		4.5V	$C_L=50pF$		20	6	-	ns
		6.0V	$C_L=50pF$		17	5	-	ns
MR input LOW pulse width	$t_w$	2.0V	$C_L=50pF$	see Figure 5	100	12	-	ns
		4.5V	$C_L=50pF$		20	4	-	ns
		6.0V	$C_L=50pF$		17	3	-	ns
MR to CP Recovery time	$t_{rec}$	2.0V	$C_L=50pF$	see Figure 5	5	-11	-	ns
		4.5V	$C_L=50pF$		5	-4	-	ns
		6.0V	$C_L=50pF$		5	-3	-	ns
Dn to CP set-up time	$t_{su}$	2.0V	$C_L=50pF$	see Figure 4	75	6	-	ns
		4.5V	$C_L=50pF$		15	2	-	ns
		6.0V	$C_L=50pF$		13	2	-	ns
Dn to CP hold time	$t_h$	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	$f_{max}$	2.0V	$C_L=50pF$	see Figure 4	5	-	-	MHZ



frequency		4.5V	$C_L=50\text{pF}$		24	-	-	MHZ
		6.0V	$C_L=50\text{pF}$		28	-	-	MHZ
<b>SN74HCT174</b>								
CP to Qn propagation delay	$t_{PLH}, t_{PHL}$	4.5V	$C_L=50\text{pF}$	see Figure 4	-	21	44	ns
		5.0V	$C_L=15\text{pF}$		-	18	-	ns
MR to Qn HIGH to LOW propagation delay	$t_{PHL}$	4.5V	$C_L=50\text{pF}$	see Figure 5	-	20	44	ns
		5V	$C_L=15\text{pF}$		-	17	-	ns
transition time	$t_{THL}, t_{TLH}$	4.5V	$C_L=50\text{pF}$	see Figure 4	-	7	19	ns
CP input HIGH or LOW pulse width	$t_w$	4.5V	$C_L=50\text{pF}$	see Figure 4	20	7	-	ns
		4.5V	$C_L=50\text{pF}$	see Figure 5	25	7	-	ns
MR to CP Recovery time	$t_{rec}$	4.5V	$C_L=50\text{pF}$	see Figure 5	15	-3	-	ns
Dn to CP set-up time	$t_{su}$	4.5V	$C_L=50\text{pF}$	see Figure 4	20	4	-	ns
Dn to CP hold time	$t_h$	4.5V	$C_L=50\text{pF}$	see Figure 4	5	-3	-	ns
maximum frequency	$f_{max}$	4.5V	$C_L=15\text{pF}$	see Figure 4	24	-	-	MHZ

### 3.3.4、AC 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	
<b>SN74HC174</b>								
CP to Qn propagation delay	$t_{PLH}, t_{PHL}$	2.0V	$C_L=50\text{pF}$	see Figure 4	-	-	250	ns
		4.5V	$C_L=50\text{pF}$		-	-	50	ns
		6.0V	$C_L=50\text{pF}$		-	-	43	ns
MR to Qn HIGH to LOW propagation delay	$t_{PHL}$	2.0V	$C_L=50\text{pF}$	see Figure 5	-	-	225	ns
		4.5V	$C_L=50\text{pF}$		-	-	45	ns
		6.0V	$C_L=50\text{pF}$		-	-	38	ns
transition time	$t_{THL}, t_{TLH}$	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
CP input HIGH or LOW pulse width	$t_w$	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
MR input LOW pulse width	$t_w$	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
MR to CP Recovery time	$t_{rec}$	2.0V	$C_L=50\text{pF}$	see Figure 5	5	-	-	ns
		4.5V	$C_L=50\text{pF}$		5	-	-	ns
		6.0V	$C_L=50\text{pF}$		5	-	-	ns



Dn to CP set-up time	$t_{su}$	2.0V	$C_L=50pF$	see Figure 4	90	-	-	ns
		4.5V	$C_L=50pF$		18	-	-	ns
		6.0V	$C_L=50pF$		15	-	-	ns
Dn to CP hold time	$t_h$	2.0V	$C_L=50pF$	see Figure 4	3	-	-	ns
		4.5V	$C_L=50pF$		3	-	-	ns
		6.0V	$C_L=50pF$		3	-	-	ns
maximum frequency	$f_{max}$	2.0V	$C_L=50pF$	see Figure 4	4	-	-	MHZ
		4.5V	$C_L=50pF$		20	-	-	MHZ
		6.0V	$C_L=50pF$		24	-	-	MHZ
<b>SN74HCT174</b>								
CP to Qn propagation delay	$t_{PLH}, t_{PHL}$	4.5V	$C_L=50pF$	see Figure 4	-	-	53	ns
MR to Qn HIGH to LOW propagation delay	$t_{PHL}$	4.5V	$C_L=50pF$	see Figure 5	-	-	53	ns
		5V	$C_L=15pF$		-	-	-	ns
transition time	$t_{THL}, t_{TLH}$	4.5V	$C_L=50pF$	see Figure 4	-	-	22	ns
CP input HIGH or LOW pulse width	$t_w$	4.5V	$C_L=50pF$	see Figure 4	24	-	-	ns
MR input LOW pulse width		4.5V	$C_L=50pF$	see Figure 5	30	-	-	ns
MR to CP Recovery time	$t_{rec}$	4.5V	$C_L=50pF$	see Figure 5	18	-	-	ns
Dn to CP set-up time	$t_{su}$	4.5V	$C_L=50pF$	see Figure 4	24	-	-	ns
Dn to CP hold time	$t_h$	4.5V	$C_L=50pF$	see Figure 4	5	-	-	ns
maximum frequency	$f_{max}$	4.5V	$C_L=50pF$	see Figure 4	20	-	-	MHZ



## 4、Testing Circuit

### 4.1、AC Testing Circuit

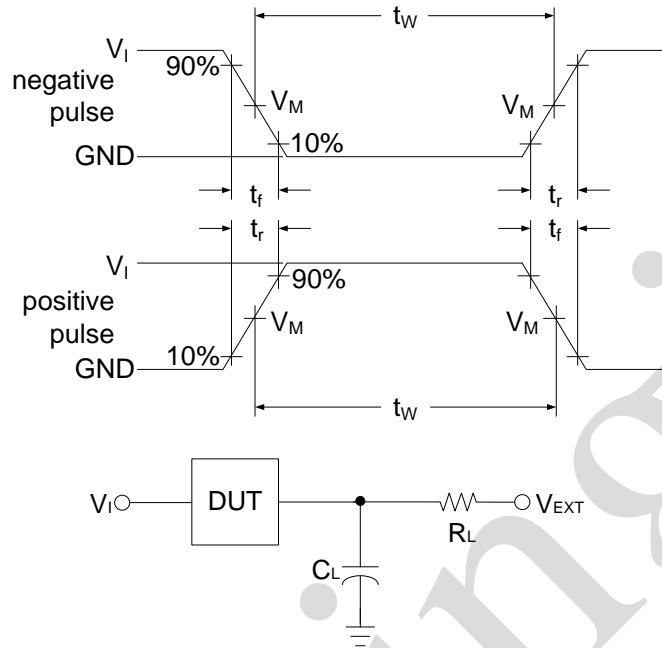


Figure 3. Test circuit for measuring switching times

$C_L$  includes probe and jig capacitance.

### 4.2、Test Data

Type	Input		Load		$V_{EXT}$		
	$V_I$	$t_r = t_f$	$C_L$	$R_L$	$t_{PLH}/t_{PHL}$	$t_{PLZ}/t_{PZL}$	$t_{PHZ}/t_{PZH}$
SN74HC174	$V_{CC}$	6.0ns	15pF, 50pF	1K $\Omega$	Open	$V_{CC}$	GND
SN74HCT174	3.0V	6.0ns	15pF, 50pF	1K $\Omega$	Open	$V_{CC}$	GND

### 4.3. AC Testing Waveforms

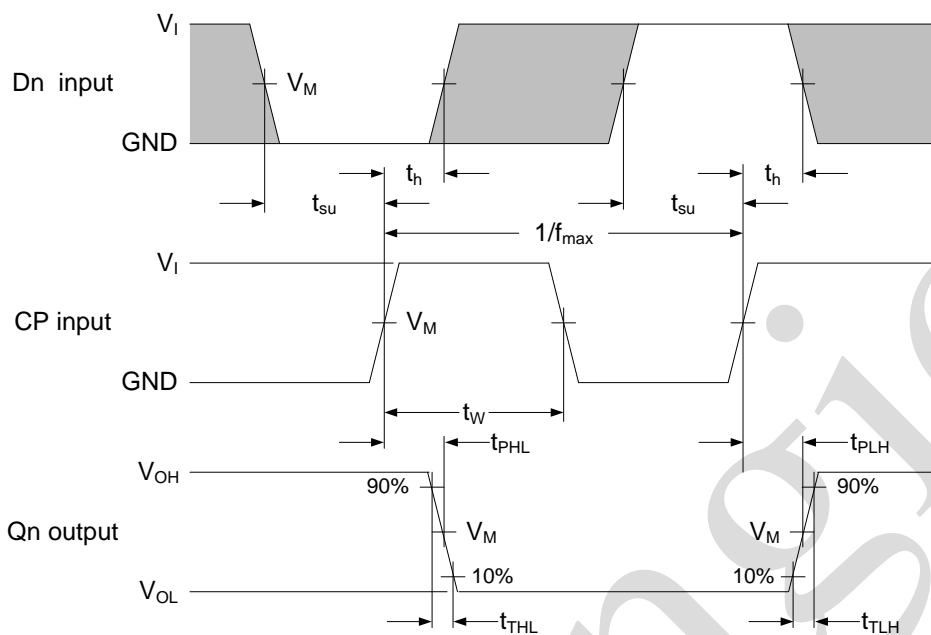


Figure 4. Input to output propagation delay, output transition time, clock input pulse width, set-up and hold times for data input and maximum frequency

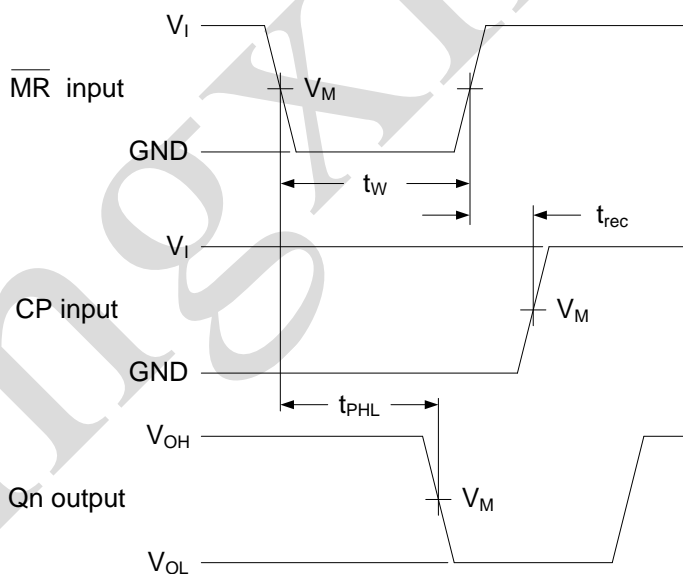


Figure 5. Master reset to output propagation delays, master reset pulse width and master reset to recovery time

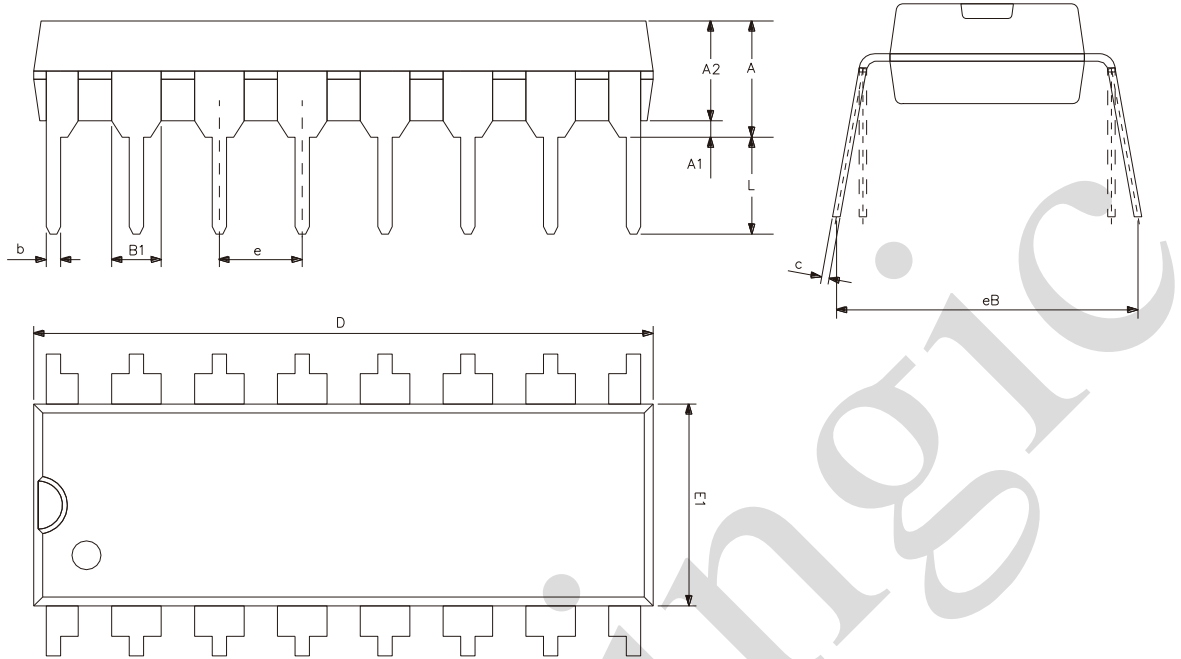
### 4.4. Measurement Points

Type	Input	Output		
	$V_M$	$V_M$	$V_X$	$V_Y$
SN74HC174	$0.5 \times V_{CC}$	$0.5 \times V_{CC}$	$0.1 \times V_{CC}$	$0.9 \times V_{CC}$
SN74HCT174	1.3V	1.3V	$0.1 \times V_{CC}$	$0.9 \times V_{CC}$



## 5、Package Information

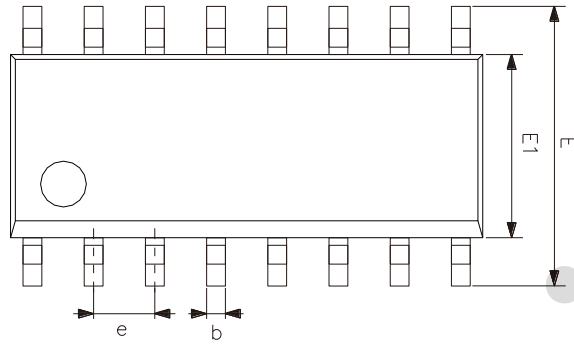
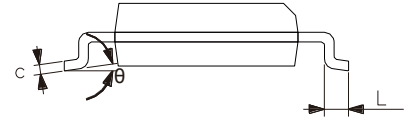
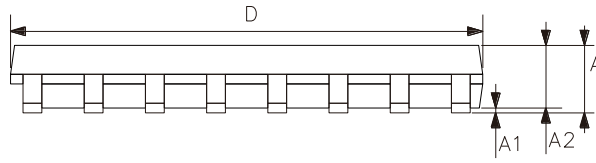
### 5.1、DIP16



Symbol	Dimensions (mm)	
	Min.	Max.
A2	3.20	3.60
A1	0.51	-
A	3.60	5.33
L	3.00	3.60
b	0.36	0.56
B1	1.52	
D	18.80	19.94
E1	6.20	6.60
e	2.54	
c	0.20	0.36
eB	7.62	9.30



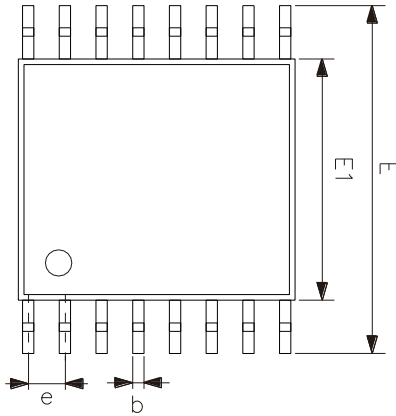
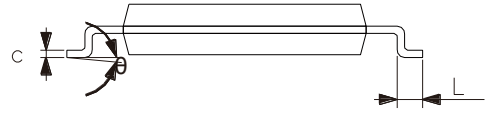
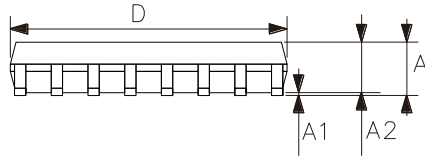
5.2、SOP16



Symbol	Dimensions (mm)	
	Min.	Max.
A	1.35	1.80
A1	0.10	0.25
A2	1.25	1.55
b	0.33	0.51
c	0.19	0.25
D	9.50	10.10
E	5.80	6.30
E1	3.70	4.10
e	1.27	
L	0.35	0.89
$\theta$	0°	8°



5.3、TSSOP16



Symbol	Dimensions (mm)	
	Min.	Max.
A	-	1.20
A1	0.05	0.15
A2	0.80	1.05
b	0.19	0.30
c	0.09	0.20
D	4.90	5.10
E1	4.30	4.50
E	6.20	6.60
e	0.65	
L	0.45	0.75
$\theta$	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.

The information in this chapter is provided for reference only and i-Core disclaims any express or implied warranties, including but not limited to applicability, special application or non-infringement of third party rights.

This product is not suitable for critical equipment such as life-saving, life-sustaining or safety equipment. It is also not suitable for applications that may result in personal injury, death, or serious property or environmental damage due to product malfunction or failure. I-Core will not be liable for any damages incurred by the customers at their own risk for such applications.

The customer is responsible for conducting all necessary tests i-Core's application to avoid failure in the application or the application of the customer's third party users. I-Core does not accept any liability.

The Company reserves the right to change or improve the information published in this chapter at any time.

The information in this chapter are subject to change without notice. We recommend the customer to consult our sales staff before purchasing.

Please obtain related materials form i-Core's regular channels and we are not responsible for its content if it is provided by sources other than our company.

In case of any conflict between the Chinese and English version, the version is subject to the Chinese one.

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [Flip-Flops](#) category:*

*Click to view products by [lingxingic](#) manufacturer:*

Other Similar products are found below :

[NLV74HC74ADTR2G](#) [74F574SC](#) [NLV14013BDR2G](#) [NLV74HC74ADR2G](#) [MC10EP131MNG](#) [MC74AC74DTR2](#) [74VHC574FT\(BJ\)](#)  
[HT4093ARZ](#) [SN74HC374ANSR](#) [CD4528BE](#) [CD4027BE](#) [RS74HC74XQ](#) [RS1G79XC5](#) [CD40106BM-JSM](#) [74HCT273PW-Q100J](#)  
[CLVC2G74QDCURG4Q1](#) [CD4067TA24.TB](#) [CD4013SA.TR](#) [AIP74HCT14TA14.TB](#) [CD4013BPWRG](#) [AiP74LVC74TA14.TB](#)  
[CD4013BDRG](#) [CD4528SA16.TR](#) [AIP74HC273SA.TB](#) [SN74HCS74QDYRQ1](#) [CD4013TA14.TB](#) [SN74LS107N](#) [SN74LS374DWR](#)  
[SN74LVC2G14DC\(LX\)](#) [74VHCT574AFT](#) [TC4013BF\(EL,N,F\)](#) [74VHCT9541AFT](#) [74LCX374FT\(AJ\)](#) [TC7WZ74FK,LXGJ\(CT](#)  
[74LCX374FT](#) [74VHC174FT\(TB,BJ\)](#) [TC7WH74FK,LJ](#) [SN74HC374PW\(LX\)](#) [SN74LVC1G17DC\(LX\)](#) [SN74HC174DR\(LX\)](#)  
[SN74HC112N\(LX\)](#) [SN74HC74DR\(LX\)](#) [CD40174BE\(LX\)](#) [CD40175BE\(LX\)](#) [SN74LS374N](#) [SN74HC173N](#) [SN74HC107DR\(LX\)](#)  
[SN74HC107N\(LX\)](#) [SN74LS174DR\(LX\)](#) [SN74LS273N\(LX\)](#)