



SN74HC/HCT366 (LX)

Hex Buffer/Line Driver; 3-state; Inverting

Product Specification

Specification Revision History:

Version	Date	Description
2012-06-A1	2012-06	New
2023-04-B1	2023-04	Update the template



Contents

1、General Description.....	3
2、Block Diagram And Pin Description	5
2.1、Block Diagram	5
2.2、Pin Configurations.....	6
2.3、Pin Description.....	6
2.4、Function Table.....	7
3、Electrical Parameter	7
3.1、Absolute Maximum Ratings.....	7
3.2、Recommended Operating Conditions	8
3.3、Electrical Characteristics.....	8
3.3.1、DC Characteristics 1	8
3.3.2、DC Characteristics 2.....	9
3.3.3、DC Characteristics 3.....	10
3.3.4、AC Characteristics 1.....	11
3.3.5、AC Characteristics 2.....	12
3.3.6、AC Characteristics 3.....	13
4、Testing Circuit	14
4.1、AC Testing Circuit	14
4.2、AC Testing Waveforms.....	14
4.3、Measurement Points	15
4.4、Test Data	15
5、Package Information.....	16
5.1、DIP16	16
5.2、SOP16	17
5.3、TSSOP16.....	18
6、Statements And Notes	19
6.1、The name and content of Hazardous substances or Elements in the product.....	19
6.2、Notes	19



1、General Description

The SN74HC/HCT366 is a hex inverting buffer/line driver with 3-state outputs controlled by the output enable inputs ($\overline{OEn}$). A HIGH on $\overline{OEn}$ causes the outputs to assume a high impedance OFF-state. Inputs include clamp diodes. This enables the use of current limiting resistors to interface inputs to voltages in excess of V_{CC} .

Features:

- Input levels:
 - For SN74HC366: CMOS level
 - For SN74HCT366: TTL level
- Inverting outputs
- Specified from -40°C to $+125^{\circ}\text{C}$
- Packaging information: DIP16/SOP16/TSSOP16

Ordering Information:

Tube packing specifications:

Part number	Packaging form	Marking code	Tube quantity	Boxed tube quantity	Boxed quantity	Notes
SN74HC366N(LX)	DIP16	SN74HC366N	25 PCS/tube	40 tube/box	1000 PCS/box	Dimensions of plastic enclosure: 19.0mm×6.4mm Pin spacing: 2.54mm
SN74HCT366N(LX)	DIP16	SN74HCT366N	25 PCS/tube	40 tube/box	1000 PCS/box	Dimensions of plastic enclosure: 19.0mm×6.4mm Pin spacing: 2.54mm
SN74HC366DR(LX)	SOP16	HC366	50 PCS/tube	200 tube/box	10000 PCS/box	Dimensions of plastic enclosure: 10.0mm×3.9mm Pin spacing: 1.27mm
SN74HCT366DR(LX)	SOP16	HCT366	50 PCS/tube	200 tube/box	10000 PCS/box	Dimensions of plastic enclosure: 10.0mm×3.9mm Pin spacing: 1.27mm
SN74HC366PW(LX)	TSSOP16	74HC366	96 PCS/tube	200 tube/box	19200 PCS/box	Dimensions of plastic enclosure: 5.0mm×4.4mm Pin spacing: 0.65mm
SN74HCT366PW(LX)	TSSOP16	74HCT366	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
SN74HC366DR(LX)	SOP16	HC366	4000 PCS/reel	8000 PCS/box	Dimensions of plastic enclosure: 10.0mm×3.9mm Pin spacing:1.27mm
SN74HCT366DR(LX)	SOP16	HCT366	4000 PCS/reel	8000 PCS/box	Dimensions of plastic enclosure: 10.0mm×3.9mm Pin spacing:1.27mm
SN74HC366PW(LX)	TSSOP16	74HC366	5000 PCS/reel	10000 PCS/box	Dimensions of plastic enclosure: 5.0mm×4.4mm Pin spacing:0.65mm
SN74HCT366PW(LX)	TSSOP16	74HCT366	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

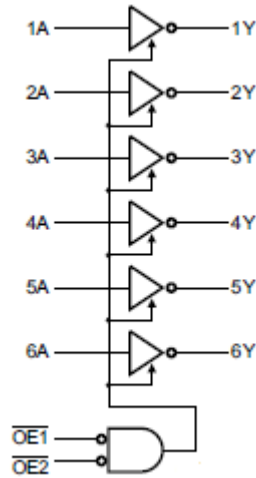


Figure 1. Logic symbol

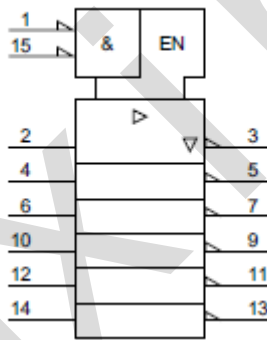


Figure 2. IEC logic symbol

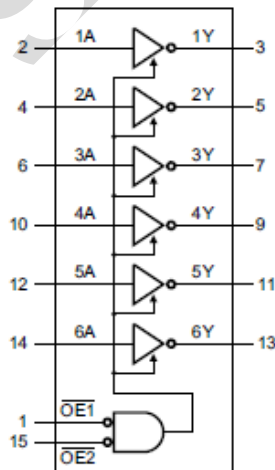


Figure 3. Functional diagram

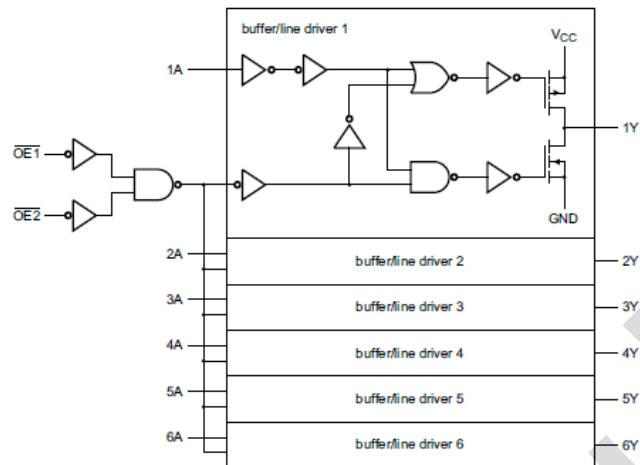
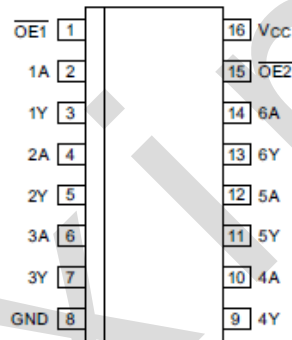


Figure 4. Logic diagram

2.2、Pin Configurations



2.3、Pin Description

Pin No.	Pin Name	Description
1	OE1	output enable input 1 (active LOW)
2	1A	data input 1
3	1Y	data output 1
4	2A	data input 2
5	2Y	data output 2
6	3A	data input 3
7	3Y	data output 3
8	GND	ground (0V)
9	4Y	data output 4
10	4A	data input 4
11	5Y	data output 5
12	5A	data input 5
13	6Y	data output 6
14	6A	data input 6
15	OE2	output enable input 2 (active LOW)
16	V _{CC}	supply voltage



2.4、Function Table

Input			Output
OE1	OE2	nA	nY
L	L	L	H
L	L	H	L
X	H	X	Z
H	X	X	Z

Note: H=HIGH voltage level; L=LOW voltage level; X=don't care; Z=high-impedance OFF-state.

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	+7.0	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	$-0.5V < V_O < V_{CC}+0.5V$	-	± 35	mA
supply current	I_{CC}	-	-	70	mA
ground current	I_{GND}	-	-70	-	mA
storage temperature	T_{stg}	-	-65	+150	°C
total power dissipation	P_{tot}	-	-	500	mW
Soldering temperature	T_L	10s	DIP SOP/TSSOP	245 260	°C



3.2、Recommended Operating Conditions

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
SN74HC366						
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
input transition rise and fall rate	$\Delta t/\Delta V$	$V_{CC}=2.0V$	-	-	625	ns/V
		$V_{CC}=4.5V$	-	1.67	139	ns/V
		$V_{CC}=6.0V$	-	-	83	ns/V
ambient temperature	T_{amb}	-	-40	-	+125	°C
SN74HCT366						
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
input transition rise and fall rate	$\Delta t/\Delta V$	$V_{CC}=4.5V$	-	1.67	139	ns/V
ambient temperature	T_{amb}	-	-40	-	+125	°C

3.3、Electrical Characteristics

3.3.1、DC Characteristics 1

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

Parameter	Symbol	Conditions		Min.	Typ.	Max.	Unit
SN74HC366							
HIGH-level input voltage	V _{IH}	V _{CC} =2.0V		1.5	1.2	-	V
		V _{CC} =4.5V		3.15	2.4	-	V
		V _{CC} =6.0V		4.2	3.2	-	V
LOW-level input voltage	V _{IL}	V _{CC} =2.0V		-	0.8	0.5	V
		V _{CC} =4.5V		-	2.1	1.35	V
		V _{CC} =6.0V		-	2.8	1.8	V
HIGH-level output voltage	V _{OH}	V _I = V _{IH} or V _{IL}	I _O =-20uA; V _{CC} =2.0V	1.9	2.0	-	V
			I _O =-20uA; V _{CC} =4.5V	4.4	4.5	-	V
			I _O =-20uA; V _{CC} =6.0V	5.9	6.0	-	V
			I _O =-6.0mA; V _{CC} =4.5V	3.98	4.32	-	V
			I _O =-7.8mA; V _{CC} =6.0V	5.48	5.81	-	V
LOW-level output voltage	V _{OL}	V _I = V _{IH} or V _{IL}	I _O =20uA; V _{CC} =2.0V	-	0	0.1	V
			I _O =20uA; V _{CC} =4.5V	-	0	0.1	V
			I _O =20uA; V _{CC} =6.0V	-	0	0.1	V
			I _O =6.0mA; V _{CC} =4.5V	-	0.15	0.26	V
			I _O =7.8mA; V _{CC} =6.0V	-	0.16	0.26	V
input leakage current	I _I	V _I =V _{CC} or GND; V _{CC} =6.0V		-	-	±1.0	uA
OFF-state output current	I _{OZ}	V _I =V _{IH} or V _{IL} ; V _{CC} =6.0V; V _O =V _{CC} or GND		-	-	±1.0	uA
supply current	I _{CC}	V _I =V _{CC} or GND; I _O =0A; V _{CC} =6.0V		-	-	8.0	uA



input capacitance	C _I	-		-	3.5	-	pF
SN74HCT366							
HIGH-level input voltage	V _{IH}	V _{CC} =4.5V to 5.5V		2.0	1.6	-	V
LOW-level input voltage	V _{IL}	V _{CC} =4.5V to 5.5V		-	1.2	0.8	V
HIGH-level output voltage	V _{OH}	V _I = V _{IH} or V _{IL} ; V _{CC} =4.5V	I _O =-20uA	4.4	4.5	-	V
			I _O =-6.0mA	3.98	4.32	-	V
LOW-level output voltage	V _{OL}	V _I = V _{IH} or V _{IL} ; V _{CC} =4.5V	I _O =20uA	-	0	0.1	V
			I _O =6.0mA	-	0.16	0.26	V
input leakage current	I _I	V _I =V _{CC} or GND; V _{CC} =5.5V		-	-	±1.0	uA
OFF-state output current	I _{OZ}	V _I =V _{IH} or V _{IL} ; V _{CC} =5.5V; V _O =V _{CC} or GND		-	-	±1.0	uA
supply current	I _{CC}	V _I =V _{CC} or GND; I _O =0A; V _{CC} =5.5V		-	-	8.0	uA
additional supply current	ΔI _{CC}	V _I =V _{CC} -2.1V; other inputs at V _{CC} or GND; I _O =0A	pins nA	-	-	360	uA
			pin $\overline{OE}1$	-	-	360	uA
			pin $\overline{OE}2$	-	-	320	uA
input capacitance	C _I	-		-	3.5	-	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
SN74HC366							
HIGH-level input voltage	V _{IH}	V _{CC} =2.0V		1.5	-	-	V
		V _{CC} =4.5V		3.15	-	-	V
		V _{CC} =6.0V		4.2	-	-	V
LOW-level input voltage	V _{IL}	V _{CC} =2.0V		-	-	0.5	V
		V _{CC} =4.5V		-	-	1.35	V
		V _{CC} =6.0V		-	-	1.8	V
HIGH-level output voltage	V _{OH}	V _I = V _{IH} or V _{IL}	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 =-6.0mA; V _{CC} =4.5V	3.84	-	-	V
			I _O =-7.8mA; V _{CC} =6.0V	5.34	-	-	V
LOW-level output voltage	V _{OL}	V _I = V _{IH} or V _{IL}	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 =6.0mA; V _{CC} =4.5V	-	-	0.33	V
			I _O =7.8mA; V _{CC} =6.0V	-	-	0.33	V
input leakage current	I _I	V _I =V _{CC} or GND; V _{CC} =6.0V		-	-	±1.0	uA
OFF-state output current	I _{OZ}	V _I =V _{IH} or V _{IL} ; V _{CC} =6.0V; V _O =V _{CC} or GND		-	-	±5.0	uA
supply current	I _{CC}	V _I =V _{CC} or GND; I _O =0A; V _{CC} =6.0V		-	-	80	uA



SN74HCT366						
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} ; $V_{CC}=4.5V$	$I_O=-20\mu A$	4.4	-	V
			$I_O=-6.0mA$	3.84	-	V
LOW-level output voltage	V_{OL}	$V_I = V_{IH}$ or V_{IL} ; $V_{CC}=4.5V$	$I_O=20\mu A$	-	-	0.1
			$I_O=6.0mA$	-	-	0.33
input leakage current	I_I	$V_I=V_{CC}$ or GND; $V_{CC}=5.5V$	-	-	± 1.0	μA
OFF-state output current	I_{OZ}	$V_I=V_{IH}$ or V_{IL} ; $V_{CC}=5.5V$; $V_O=V_{CC}$ or GND	-	-	± 5.0	μA
supply current	I_{CC}	$V_I=V_{CC}$ or GND; $I_O=0A$; $V_{CC}=5.5V$	-	-	80	μA
additional supply current	ΔI_{CC}	$V_I=V_{CC}-2.1V$; other inputs at V_{CC} or GND; $I_O=0A$	pins nA	-	-	450
			pin OE1	-	-	450
			pin OE2	-	-	400

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
SN74HC366						
HIGH-level input voltage	V_{IH}	$V_{CC}=2.0V$	1.5	-	-	V
		$V_{CC}=4.5V$	3.15	-	-	V
		$V_{CC}=6.0V$	4.2	-	-	V
LOW-level input voltage	V_{IL}	$V_{CC}=2.0V$	-	-	0.5	V
		$V_{CC}=4.5V$	-	-	1.35	V
		$V_{CC}=6.0V$	-	-	1.8	V
HIGH-level output voltage	V_{OH}	$V_I = V_{IH}$ or V_{IL}	$I_O=-20\mu A$; $V_{CC}=2.0V$	1.9	-	V
			$I_O=-20\mu A$; $V_{CC}=4.5V$	4.4	-	V
			$I_O=-20\mu A$; $V_{CC}=6.0V$	5.9	-	V
			$I_O=-6.0mA$; $V_{CC}=4.5V$	3.7	-	V
			$I_O=-7.8mA$; $V_{CC}=6.0V$	5.2	-	V
LOW-level output voltage	V_{OL}	$V_I = V_{IH}$ or V_{IL}	$I_O=20\mu A$; $V_{CC}=2.0V$	-	-	0.1
			$I_O=20\mu A$; $V_{CC}=4.5V$	-	-	0.1
			$I_O=20\mu A$; $V_{CC}=6.0V$	-	-	0.1
			$I_O=6.0mA$; $V_{CC}=4.5V$	-	-	0.4
			$I_O=7.8mA$; $V_{CC}=6.0V$	-	-	0.4
input leakage current	I_I	$V_I=V_{CC}$ or GND; $V_{CC}=6.0V$	-	-	± 1.0	μA
OFF-state output current	I_{OZ}	$V_I=V_{IH}$ or V_{IL} ; $V_{CC}=6.0V$; $V_O=V_{CC}$ or GND	-	-	± 10	μA
supply current	I_{CC}	$V_I=V_{CC}$ or GND; $I_O=0A$; $V_{CC}=6.0V$	-	-	160	μA
SN74HCT366						
HIGH-level input voltage	V_{IH}	$V_{CC}=4.5V$ to $5.5V$	2.0	-	-	V
LOW-level	V_{IL}	$V_{CC}=4.5V$ to $5.5V$	-	-	0.8	V



input voltage							
HIGH-level output voltage	V_{OH}	$V_I = V_{IH} \text{ or } V_{IL}; V_{CC}=4.5V$	$I_O=-20\mu A$	4.4	-	-	V
			$I_O=-6.0mA$	3.7	-	-	V
LOW-level output voltage	V_{OL}	$V_I = V_{IH} \text{ or } V_{IL}; V_{CC}=4.5V$	$I_O=20\mu A$	-	-	0.1	V
			$I_O=6.0mA$	-	-	0.4	V
input leakage current	I_I	$V_I=V_{CC} \text{ or } GND; V_{CC}=5.5V$		-	-	± 1.0	μA
OFF-state output current	I_{OZ}	$V_I=V_{IH} \text{ or } V_{IL}; V_{CC}=5.5V; V_O=V_{CC} \text{ or } GND$		-	-	± 10	μA
supply current	I_{CC}	$V_I=V_{CC} \text{ or } GND; I_O=0A; V_{CC}=5.5V$		-	-	160	μA
additional supply current	ΔI_{CC}	$V_I=V_{CC}-2.1V; \text{ other inputs at } V_{CC} \text{ or } GND; I_O=0A$	pins nA	-	-	490	μA
			pin $\overline{OE}1$	-	-	490	μA
			pin $\overline{OE}2$	-	-	441	μA

3.3.4、AC Characteristics 1

($T_{amb}=25^\circ C$, $GND=0V$, $C_L=50pF$, unless otherwise specified.)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
SN74HC366						
nA to nY propagation delay	t_{pd}	see Figure 6	$V_{CC}=2.0V$	-	33	100 ns
			$V_{CC}=4.5V$	-	12	20 ns
			$V_{CC}=5.0V; C_L=15pF$	-	10	- ns
			$V_{CC}=6.0V$	-	10	17 ns
$\overline{OEn}$ to nY enable time	t_{en}	see Figure 7	$V_{CC}=2.0V$	-	44	150 ns
			$V_{CC}=4.5V$	-	16	30 ns
			$V_{CC}=6.0V$	-	13	16 ns
$\overline{OEn}$ to nY disable time	t_{dis}	see Figure 7	$V_{CC}=2.0V$	-	55	150 ns
			$V_{CC}=4.5V$	-	20	30 ns
			$V_{CC}=6.0V$	-	16	26 ns
transition time	t_t	see Figure 6	$V_{CC}=2.0V$	-	14	60 ns
			$V_{CC}=4.5V$	-	5	12 ns
			$V_{CC}=6.0V$	-	4	10 ns
power dissipation capacitance	C_{PD}	per buffer; $V_I=GND$ to V_{CC}	-	30	-	pF
SN74HCT366						
nA to nY propagation delay	t_{pd}	see Figure 6	$V_{CC}=4.5V$	-	13	24 ns
			$V_{CC}=5.0V; C_L=15pF$	-	11	- ns
$\overline{OEn}$ to nY enable time	t_{en}	$V_{CC}=4.5V$; see Figure 7	-	16	35	ns
$\overline{OEn}$ to nY disable time	t_{dis}	$V_{CC}=4.5V$; see Figure 7	-	20	35	ns
transition time	t_t	$V_{CC}=4.5V$; see Figure 6	-	5	12	ns
power dissipation capacitance	C_{PD}	per buffer; $V_I=GND$ to $V_{CC}-1.5V$	-	30	-	pF

Note:



- [1] t_{pd} is the same as t_{PLH} and t_{PHL} .
 [2] t_{en} is the same as t_{PZL} and t_{PZH} .
 [3] t_{dis} is the same as t_{PLZ} and t_{PHZ} .
 [4] t_t is the same as t_{THL} and t_{TLH} .
 [5] C_{PD} is used to determine the dynamic power dissipation (P_D in uW).
 $P_D = C_{PD} \times V_{CC}^2 \times f_i \times N + \sum (C_L \times V_{CC}^2 \times f_o)$ 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.

3.3.5、AC Characteristics 2

($T_{amb} = -40^\circ\text{C}$ to $+85^\circ\text{C}$, $GND = 0V$, $C_L = 50pF$, unless otherwise specified.)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
SN74HC366						
nA to nY propagation delay	t_{pd}	see Figure 6	$V_{CC}=2.0V$	-	-	125 ns
			$V_{CC}=4.5V$	-	-	25 ns
			$V_{CC}=6.0V$	-	-	21 ns
$\overline{O}En$ to nY enable time	t_{en}	see Figure 7	$V_{CC}=2.0V$	-	-	190 ns
			$V_{CC}=4.5V$	-	-	38 ns
			$V_{CC}=6.0V$	-	-	33 ns
$\overline{O}En$ to nY disable time	t_{dis}	see Figure 7	$V_{CC}=2.0V$	-	-	190 ns
			$V_{CC}=4.5V$	-	-	38 ns
			$V_{CC}=6.0V$	-	-	33 ns
transition time	t_t	see Figure 6	$V_{CC}=2.0V$	-	-	75 ns
			$V_{CC}=4.5V$	-	-	15 ns
			$V_{CC}=6.0V$	-	-	13 ns
SN74HCT366						
nA to nY propagation delay	t_{pd}	see Figure 6	$V_{CC}=4.5V$	-	-	30 ns
$\overline{O}En$ to nY enable time	t_{en}	$V_{CC}=4.5V$; see Figure 7	-	-	44	ns
$\overline{O}En$ to nY disable time	t_{dis}	$V_{CC}=4.5V$; see Figure 7	-	-	44	ns
transition time	t_t	$V_{CC}=4.5V$; see Figure 6	-	-	15	ns

Note:

- [1] t_{pd} is the same as t_{PLH} and t_{PHL} .
 [2] t_{en} is the same as t_{PZL} and t_{PZH} .
 [3] t_{dis} is the same as t_{PLZ} and t_{PHZ} .
 [4] t_t is the same as t_{THL} and t_{TLH} .



3.3.6、AC Characteristics 3

($T_{amb} = -40^{\circ}\text{C}$ to $+125^{\circ}\text{C}$, $GND=0V$, $C_L=50pF$, unless otherwise specified.)

Parameter	Symbol	Conditions		Min.	Typ.	Max.	Unit
SN74HC366							
nA to nY propagation delay	t _{pd}	see Figure 6	V _{CC} =2.0V	-	-	150	ns
			V _{CC} =4.5V	-	-	30	ns
			V _{CC} =6.0V	-	-	26	ns
OEn to nY enable time	t _{en}	see Figure 7	V _{CC} =2.0V	-	-	225	ns
			V _{CC} =4.5V	-	-	45	ns
			V _{CC} =6.0V	-	-	38	ns
OEn to nY disable time	t _{dis}	see Figure 7	V _{CC} =2.0V	-	-	225	ns
			V _{CC} =4.5V	-	-	45	ns
			V _{CC} =6.0V	-	-	38	ns
transition time	t _t	see Figure 6	V _{CC} =2.0V	-	-	90	ns
			V _{CC} =4.5V	-	-	18	ns
			V _{CC} =6.0V	-	-	15	ns
SN74HCT366							
nA to nY propagation delay	t _{pd}	see Figure 6	V _{CC} =4.5V	-	-	36	ns
OEn to nY enable time	t _{en}	V _{CC} =4.5V; see Figure 7		-	-	53	ns
OEn to nY disable time	t _{dis}	V _{CC} =4.5V; see Figure 7		-	-	53	ns
transition time	t _t	V _{CC} =4.5V; see Figure 6		-	-	18	ns

Note:

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

[2] t_{en} is the same as t_{PZL} and t_{PZH} .

[3] t_{dis} is the same as t_{PLZ} and t_{PHZ} .

[4] t_t is the same as t_{THL} and t_{TLH} .

4、Testing Circuit

4.1、AC Testing Circuit

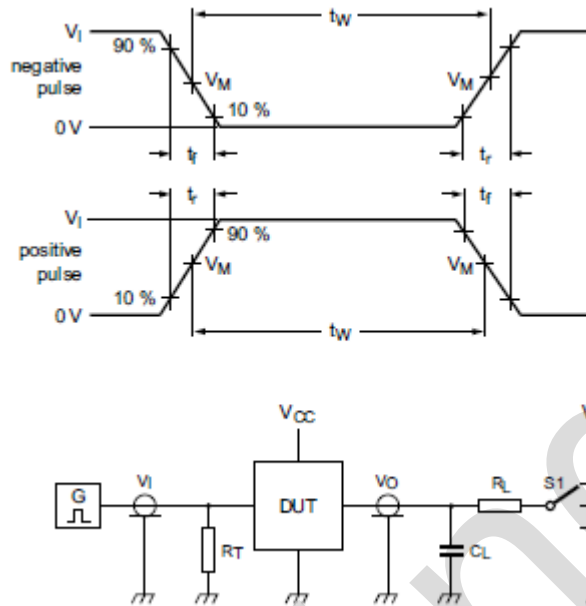


Figure 5. Test circuit for measuring switching times

Definitions for test circuit:

R_L =Load resistance.

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.

S1=Test selection switch.

4.2、AC Testing Waveforms

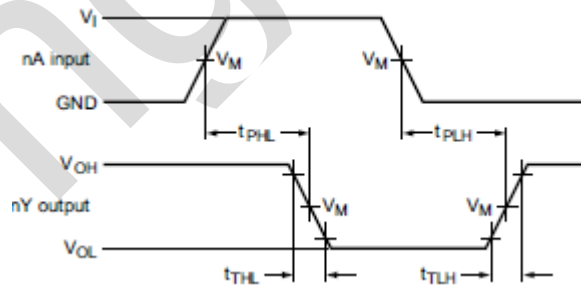


Figure 6. Input (nA) to output (nY) propagation delays and output transition times

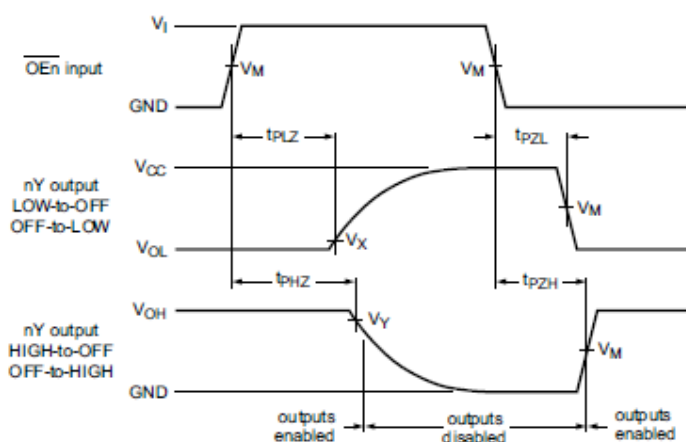


Figure 7. 3-state enable and disable times

4.3、Measurement Points

Type	Input	Output		
	V_M	V_M	V_X	V_Y
SN74HC366	$0.5 \times V_{CC}$	$0.5 \times V_{CC}$	$0.1 \times V_{CC}$	$0.9 \times V_{CC}$
SN74HCT366	1.3V	1.3V	$0.1 \times V_{CC}$	$0.9 \times V_{CC}$

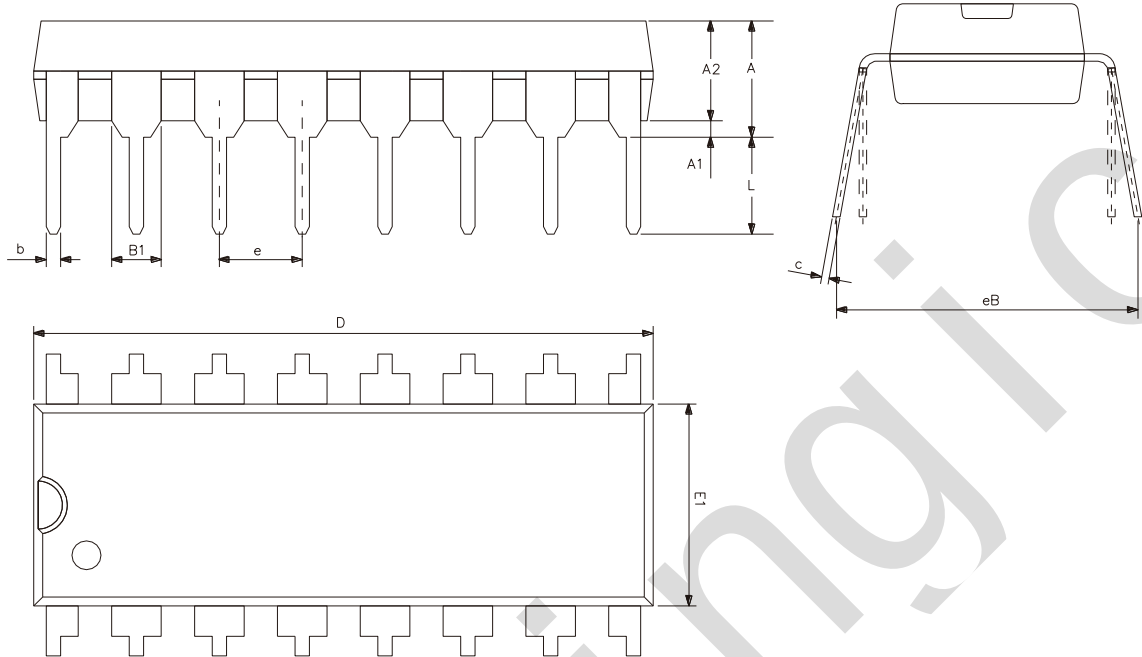
4.4、Test Data

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}
SN74HC366	V_{CC}	6ns	15pF, 50pF	1k Ω	open	GND	V_{CC}
SN74HCT366	3V	6ns	15pF, 50pF	1k Ω	open	GND	V_{CC}



5、Package Information

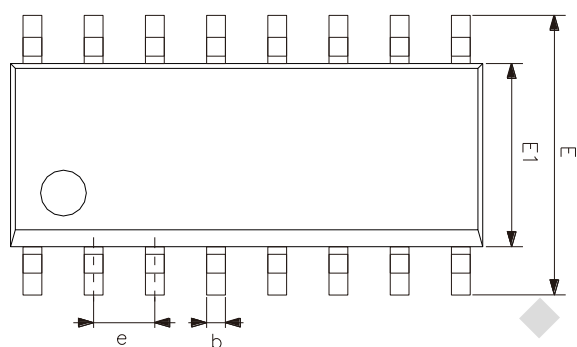
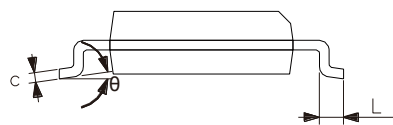
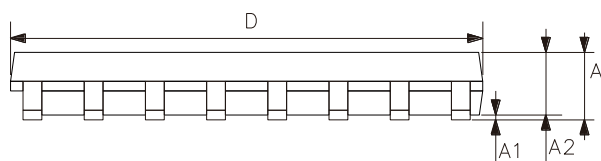
5.1、DIP16



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



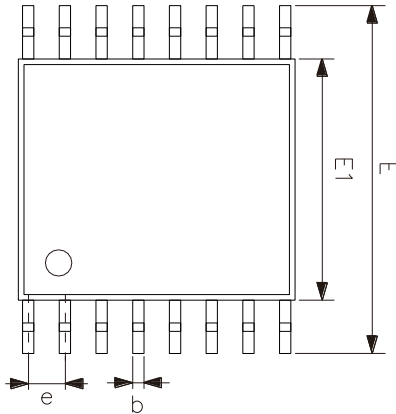
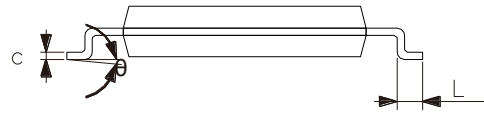
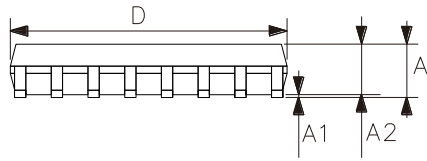
5.2、SOP16



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
θ	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
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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