

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°C
- Packaging information: DIP16/SOP16/TSSOP16

Ordering Information

Product Model	Package Type	Marking	Packing	Packing Qty
XBLW SN74HC366N	DIP-16	74HC366N	Tube	1000Pcs/Box
XBLW SN74HC366DTR	SOP-16	74HC366	Tape	2500Pcs/Reel
XBLW SN74HC366TDTR	TSSOP-16	74HC366	Tape	3000Pcs/Reel
XBLW SN74HCT366N	DIP-16	74HCT366N	Tube	1000Pcs/Box
XBLW SN74HCT366DTR	SOP-16	74HCT366	Tape	2500Pcs/Reel
XBLW SN74HCT366TDTR	TSSOP-16	74HCT366	Tape	3000Pcs/Reel

Block Diagram And Pin Description

Block Diagram

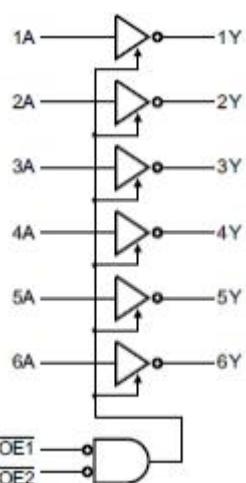


Figure 1. Logic symbol

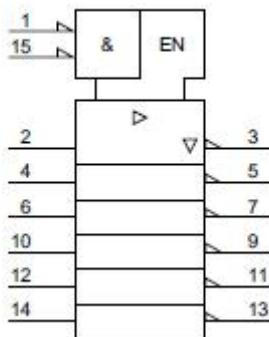


Figure 2. IEC logic symbol

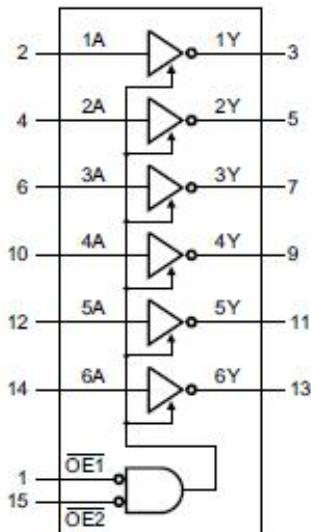


Figure 3. Functional diagram

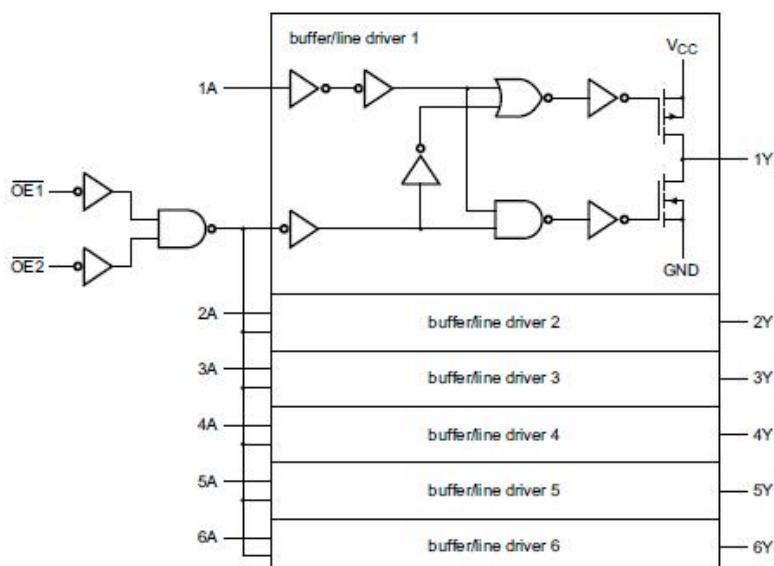
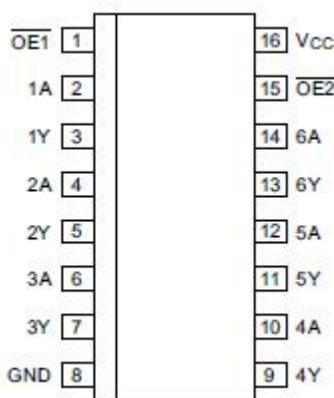


Figure 4. Logic diagram



Pin Configurations



Pin Description Function Table

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

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.



Electrical Parameter

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	245		°C
			SOP/TSSOP	260		

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	Δt/ΔV	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	Δt/ΔV	V _{CC} =4.5V		-	1.67	139	ns/V
ambient temperature	T _{amb}	-		-40	-	+125	°C



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}	$I_O=-20\mu A; V_{CC}=2.0V$	1.9	2.0	-	V
			$I_O=-20\mu A; V_{CC}=4.5V$	4.4	4.5	-	V
			$I_O=-20\mu A; V_{CC}=6.0V$	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}	$I_O=20\mu A; V_{CC}=2.0V$	-	0	0.1	V
			$I_O=20\mu A; V_{CC}=4.5V$	-	0	0.1	V
			$I_O=20\mu A; V_{CC}=6.0V$	-	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	μA	
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	μA	
supply current	I_{CC}	$V_I=V_{CC}$ or GND; $I_O=0A$; $V_{CC}=6.0V$	-	-	8.0	μA	
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} ; $V_{CC}=4.5V$	$I_O=-20\mu A$	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} ; $V_{CC}=4.5V$	$I_O=20\mu A$	-	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	μA	
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	μA	
supply current	I_{CC}	$V_I=V_{CC}$ or GND; $I_O=0A$; $V_{CC}=5.5V$	-	-	8.0	μA	
additional supply current	ΔI_{CC}	$V_I=V_{CC}-2.1V$; other inputs at V_{CC} or GND; $I_O=0A$	pins nA	-	-	360	μA
			pin $\bar{OE}1$	-	-	360	μA
			pin $\bar{OE}2$	-	-	320	μA
input capacitance	C_I	-	-	3.5	-	pF	



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	
SN74HC366							
HIGH-level input voltage	V_{IH}	$V_{CC}=2.0\text{V}$	1.5	-	-	V	
		$V_{CC}=4.5\text{V}$	3.15	-	-	V	
		$V_{CC}=6.0\text{V}$	4.2	-	-	V	
LOW-level input voltage	V_{IL}	$V_{CC}=2.0\text{V}$	-	-	0.5	V	
		$V_{CC}=4.5\text{V}$	-	-	1.35	V	
		$V_{CC}=6.0\text{V}$	-	-	1.8	V	
HIGH-level output voltage	V_{OH}	$V_I = V_{IH}$ or V_{IL}	$I_O=-20\mu\text{A}; V_{CC}=2.0\text{V}$	1.9	-	V	
			$I_O=-20\mu\text{A}; V_{CC}=4.5\text{V}$	4.4	-	V	
			$I_O=-20\mu\text{A}; V_{CC}=6.0\text{V}$	5.9	-	V	
			$I_O=-6.0\text{mA}; V_{CC}=4.5\text{V}$	3.84	-	V	
			$I_O=-7.8\text{mA}; V_{CC}=6.0\text{V}$	5.34	-	V	
LOW-level output voltage	V_{OL}	$V_I = V_{IH}$ or V_{IL}	$I_O=20\mu\text{A}; V_{CC}=2.0\text{V}$	-	-	0.1	V
			$I_O=20\mu\text{A}; V_{CC}=4.5\text{V}$	-	-	0.1	V
			$I_O=20\mu\text{A}; V_{CC}=6.0\text{V}$	-	-	0.1	V
			$I_O=6.0\text{mA}; V_{CC}=4.5\text{V}$	-	-	0.33	V
			$I_O=7.8\text{mA}; V_{CC}=6.0\text{V}$	-	-	0.33	V
input leakage current	I_I	$V_I=V_{CC}$ or GND; $V_{CC}=6.0\text{V}$	-	-	± 1.0	μA	
OFF-state output current	I_{OZ}	$V_I=V_{IH}$ or V_{IL} ; $V_{CC}=6.0\text{V}$; $V_O=V_{CC}$ or GND	-	-	± 5.0	μA	
supply current	I_{CC}	$V_I=V_{CC}$ or GND; $I_O=0\text{A}$; $V_{CC}=6.0\text{V}$	-	-	80	μA	
SN74HCT366							
HIGH-level input voltage	V_{IH}	$V_{CC}=4.5\text{V}$ to 5.5V	2.0	-	-	V	
LOW-level input voltage	V_{IL}	$V_{CC}=4.5\text{V}$ to 5.5V	-	-	0.8	V	
HIGH-level output voltage	V_{OH}	$V_I = V_{IH}$ or V_{IL} ; $V_{CC}=4.5\text{V}$	$I_O=-20\mu\text{A}$	4.4	-	V	
			$I_O=-6.0\text{mA}$	3.84	-	V	
LOW-level output voltage	V_{OL}	$V_I = V_{IH}$ or V_{IL} ; $V_{CC}=4.5\text{V}$	$I_O=20\mu\text{A}$	-	-	0.1	V
			$I_O=6.0\text{mA}$	-	-	0.33	V
input leakage current	I_I	$V_I=V_{CC}$ or GND; $V_{CC}=5.5\text{V}$	-	-	± 1.0	μA	
OFF-state output current	I_{OZ}	$V_I=V_{IH}$ or V_{IL} ; $V_{CC}=5.5\text{V}$; $V_O=V_{CC}$ or GND	-	-	± 5.0	μA	
supply current	I_{CC}	$V_I=V_{CC}$ or GND; $I_O=0\text{A}$; $V_{CC}=5.5\text{V}$	-	-	80	μA	
additional supply current	ΔI_{CC}	$V_I=V_{CC}-2.1\text{V}$; other inputs at V_{CC} or GND; $I_O=0\text{A}$	pins nA	-	-	450	μA
			pin OE1	-	-	450	μA
			pin OE2	-	-	400	μA



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	
SN74HC366							
HIGH-level input voltage	V_{IH}	$V_{CC}=2.0\text{V}$	1.5	-	-	V	
		$V_{CC}=4.5\text{V}$	3.15	-	-	V	
		$V_{CC}=6.0\text{V}$	4.2	-	-	V	
LOW-level input voltage	V_{IL}	$V_{CC}=2.0\text{V}$	-	-	0.5	V	
		$V_{CC}=4.5\text{V}$	-	-	1.35	V	
		$V_{CC}=6.0\text{V}$	-	-	1.8	V	
HIGH-level output voltage	V_{OH}	$V_I = V_{IH}$ or V_{IL}	$I_O=-20\mu\text{A}; V_{CC}=2.0\text{V}$	1.9	-	V	
			$I_O=-20\mu\text{A}; V_{CC}=4.5\text{V}$	4.4	-	V	
			$I_O=-20\mu\text{A}; V_{CC}=6.0\text{V}$	5.9	-	V	
			$I_O=-6.0\text{mA}; V_{CC}=4.5\text{V}$	3.7	-	V	
			$I_O=-7.8\text{mA}; V_{CC}=6.0\text{V}$	5.2	-	V	
LOW-level output voltage	V_{OL}	$V_I = V_{IH}$ or V_{IL}	$I_O=20\mu\text{A}; V_{CC}=2.0\text{V}$	-	-	0.1	V
			$I_O=20\mu\text{A}; V_{CC}=4.5\text{V}$	-	-	0.1	V
			$I_O=20\mu\text{A}; V_{CC}=6.0\text{V}$	-	-	0.1	V
			$I_O=6.0\text{mA}; V_{CC}=4.5\text{V}$	-	-	0.4	V
			$I_O=7.8\text{mA}; V_{CC}=6.0\text{V}$	-	-	0.4	V
input leakage current	I_I	$V_I=V_{CC}$ or GND; $V_{CC}=6.0\text{V}$	-	-	± 1.0	μA	
OFF-state output current	I_{OZ}	$V_I=V_{IH}$ or V_{IL} ; $V_{CC}=6.0\text{V}$; $V_O=V_{CC}$ or GND	-	-	± 10	μA	
supply current	I_{CC}	$V_I=V_{CC}$ or GND; $I_O=0\text{A}$; $V_{CC}=6.0\text{V}$	-	-	160	μA	
SN74HCT366							
HIGH-level input voltage	V_{IH}	$V_{CC}=4.5\text{V}$ to 5.5V	2.0	-	-	V	
LOW-level input voltage	V_{IL}	$V_{CC}=4.5\text{V}$ to 5.5V	-	-	0.8	V	
HIGH-level output voltage	V_{OH}	$V_I = V_{IH}$ or V_{IL} ; $V_{CC}=4.5\text{V}$	$I_O=-20\mu\text{A}$	4.4	-	V	
LOW-level output voltage			$I_O=-6.0\text{mA}$	3.7	-	V	
input leakage current	I_I	$V_I=V_{CC}$ or GND; $V_{CC}=5.5\text{V}$	-	-	± 1.0	μA	
OFF-state output current	I_{OZ}	$V_I=V_{IH}$ or V_{IL} ; $V_{CC}=5.5\text{V}$; $V_O=V_{CC}$ or GND	-	-	± 10	μA	
supply current	I_{CC}	$V_I=V_{CC}$ or GND; $I_O=0\text{A}$; $V_{CC}=5.5\text{V}$	-	-	160	μA	
additional supply current	ΔI_{CC}	$V_I=V_{CC}-2.1\text{V}$; other inputs at V_{CC} or GND; $I_O=0\text{A}$	pins nA	-	-	490 μA	
			pin \bar{OE}_1	-	-	490 μA	
			pin \bar{OE}_2	-	-	441 μA	



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 tonY 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
\bar{O}_{En} 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
\bar{O}_{En} 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 capacitanc e	C_{PD}	per buffer; $V_i=GND$ to V_{CC}	-	30	-	pF	
SN74HCT366							
nA tonY propagation delay	t_{pd}	see Figure 6	$V_{CC}=4.5V$	-	13	24	ns
			$V_{CC}=5.0V; C_L=15pF$	-	11	-	ns
\bar{O}_{En} to nY enable time	t_{en}	$V_{CC}=4.5V$; see Figure 7	-	16	35	ns	
\bar{O}_{En} 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 capacitanc e	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 μW).

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

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;

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



AC Characteristics 2

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

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



AC Characteristics 3

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

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

Testing Circuit

AC Testing Circuit

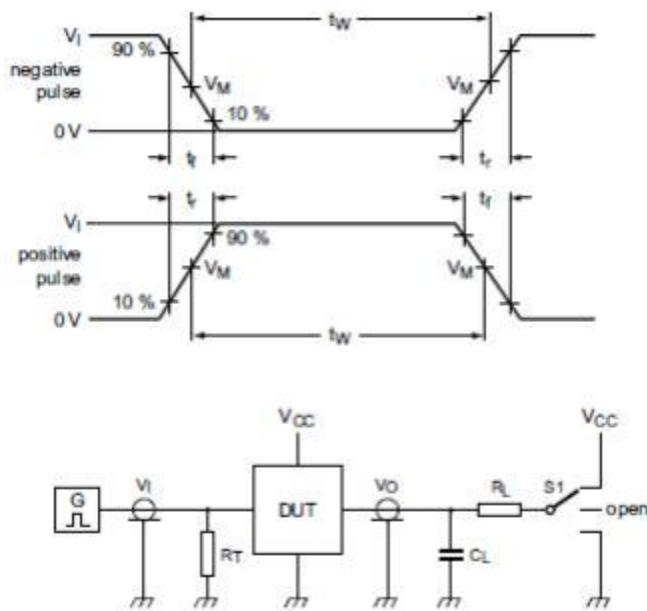


Figure 5. Test circuit for measuring switching times

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.

AC Testing Waveforms

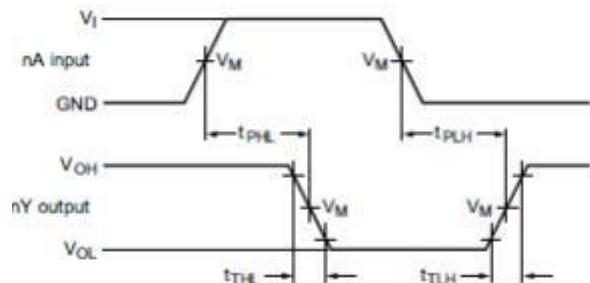


Figure 6. Input (nA) to output (nY) propagation delays and output transition times

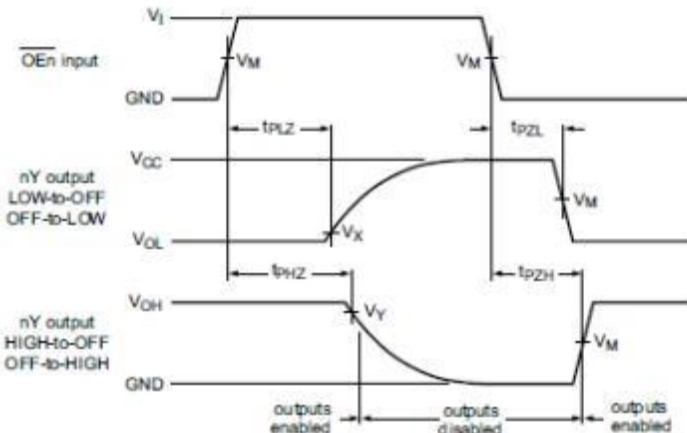


Figure 7. 3-state enable and disable times



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×V _{CC}	0.9×V _{CC}	

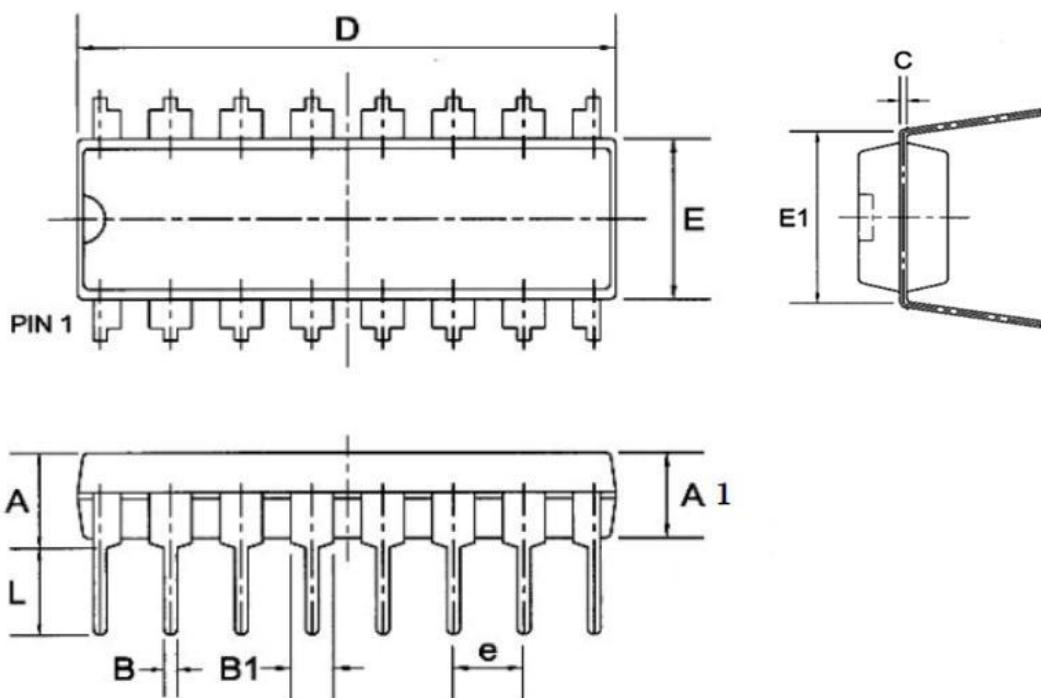
Test Data

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



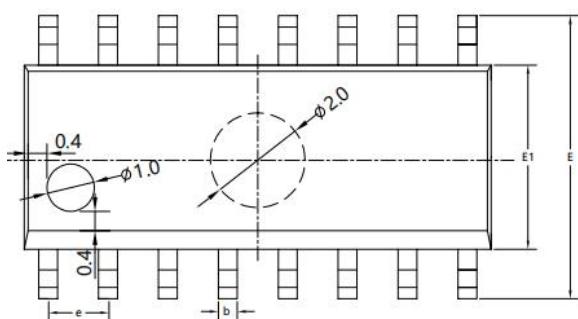
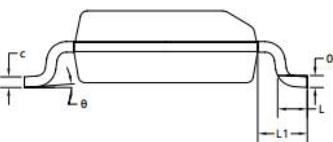
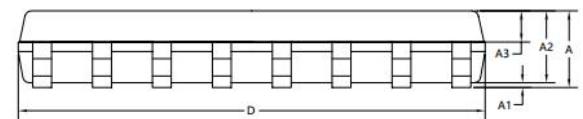
Package Information

DIP16



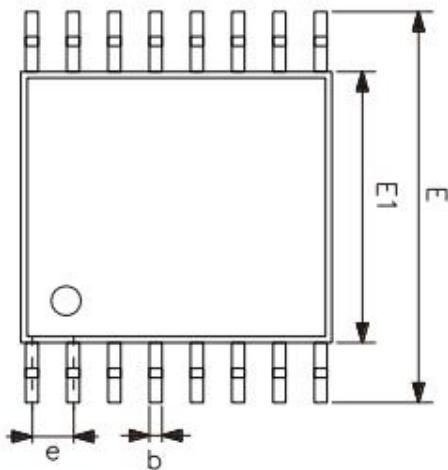
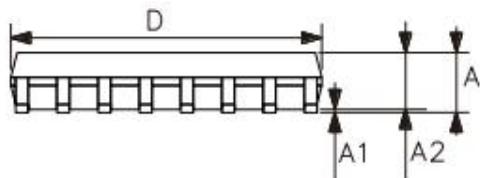
Symbol	Dimensions in Millimeters		
	Min	Nom	Max
A	--	--	4.31
A1	3.15	3.30	3.65
B	--	0.50	--
B1	--	1.6	--
C	--	0.27	--
D	19.00	19.20	19.60
E	6.20	6.50	6.60
E1	--	8.0	--
e	--	2.3	--
L	3.00	3.20	3.60

SOP16



SYMBOL	MILLIMETER		
	MIN	NOM	MAX
A	1.50	1.60	1.70
A1	0.10	0.15	0.25
A2	1.40	1.45	1.50
A3	0.60	0.65	0.70
b	0.30	0.40	0.50
c	0.15	0.20	0.25
D	9.80	9.90	10.00
E	5.80	6.00	6.20
E1	3.85	3.90	3.95
e	1.27BSC		
L	0.50	0.60	0.70
L1	1.05BSC		
θ	0°	4°	8°

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°



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