

General Description

The 74HC/HCT139 decodes two binary weighted address inputs (nA_0 , nA_1) to four mutually exclusive outputs ($n\bar{Y}_0$ to $n\bar{Y}_3$). Each decoder features an enable input ($n\bar{E}$). When $n\bar{E}$ is HIGH all outputs are forced HIGH. The enable input can be used as the data input for a 1-to-4 demultiplexer application. 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 74HC139: CMOS level
 - For 74HCT139: TTL level
- Demultiplexing capability
- 2 independent 2-to-4 decoders
- Multifunction capability
- Suitable for memory decoding, data routing or code conversion
- Active LOW mutually exclusive outputs
- Specified from -40°C to +105°C
- Packaging information: DIP16/SOP16/TSSOP16

ORDERING INFORMATION

DEVICE	Package Type	MARKING	Packing	Packing QTY
SN74HC139N	DIP-16	74HC139N	Tube	1000/Box
SN74HC139DTR	SOP-16	74HC139	Tape	2500/Reel
SN74HCT139DTR	SOP-16	74HCT139	Tape	2500/Reel
SN74HCT139TDTR	TSSOP-16	74HCT139	Tape	3000/Reel

Block Diagram And Pin Description

Block Diagram

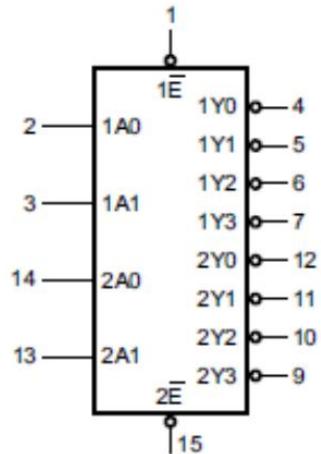


Figure 1. Logic symbol

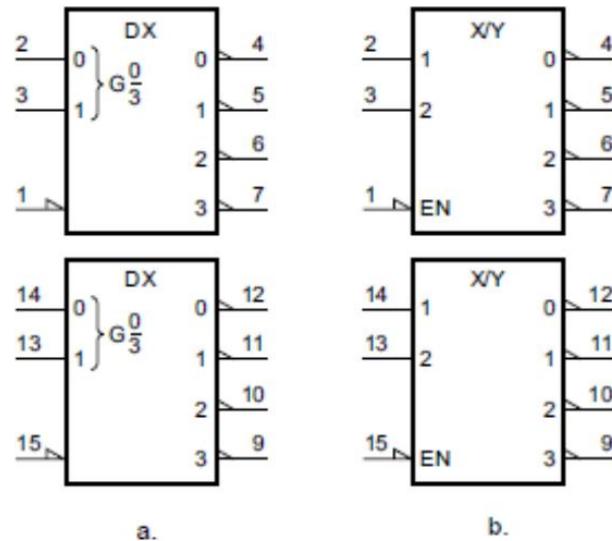


Figure 2. IEC logic symbol

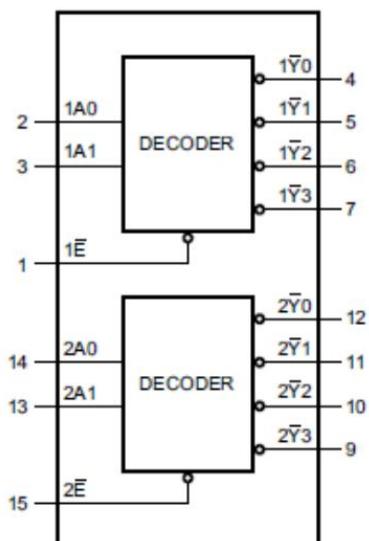


Figure 3. Functional diagram

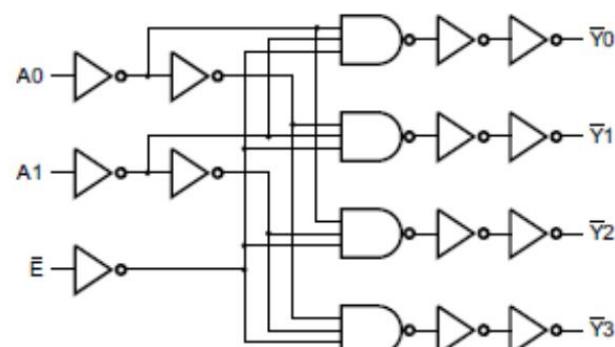
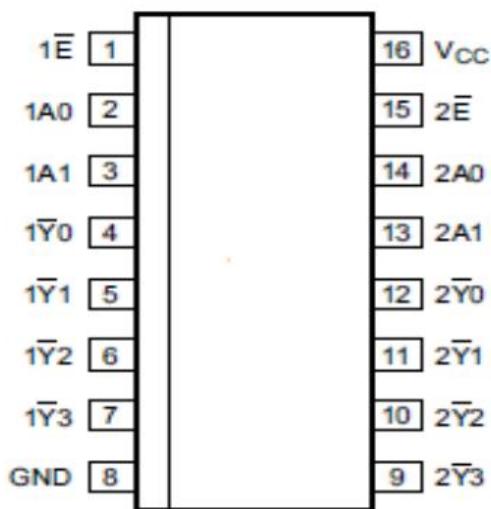


Figure 4. Logic diagram(one decoder/demultiplexer)

Pin Configurations



Pin Description

Pin No.	Pin Name	Description
1	1̄E	enable input(active LOW)
2	1A0	address input
3	1A1	address input
4	1̄Y0	output(active LOW)
5	1̄Y1	output(active LOW)
6	1̄Y2	output(active LOW)
7	1̄Y3	output(active LOW)
8	GND	ground(0V)
9	2̄Y3	output(active LOW)
10	2̄Y2	output(active LOW)
11	2̄Y1	output(active LOW)
12	2̄Y0	output(active LOW)
13	2A1	address input
14	2A0	address input
15	2̄E	enable input(active LOW)
16	VCC	Supply voltage

Function Table

Control	Input		Output				
	nE	nA1	nA0	nY3	nY2	nY1	nY0
H	X	X		H	H	H	H
L	L	L		H	H	H	L
L	L	H		H	H	L	H
L	H	L		H	L	H	H
L	H	H		L	H	H	H

Note: H=HIGH voltage level; L=LOW voltage level; X=don't care.

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	V _O =-0.5V to V _{CC} +0.5V		-	±25	mA
supply current	I _{CC}	-		-	50	mA
ground current	I _{GND}	-		-50	-	mA
storage temperature	T _{stg}	-		-65	+150	°C
total power dissipation	P _{tot}	-		-	500	mW
soldering temperature	T _L	10s	DIP	245		°C
			SOP	250		

Note:

- [1] For DIP16 packages: above 70°C the value of P_{tot} derates linearly with 12mW/K.
- [2] For SOP16 packages: above 70°C the value of P_{tot} derates linearly with 8mW/K.
- [3] For (T)SSOP16 packages: above 60°C the value of P_{tot} derates linearly with 5.5mW/K.

Recommended Operating Conditions

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
74HC139						
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	-	+105	°C
74HCT139						
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	-	+105	°C

Electrical Characteristics

DC Characteristics 1 (T_{amb}=25°C, voltages are referenced to GND (ground=0V), unless otherwise specified.)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit	
74HC139							
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 =-4.0mA;V _{CC} =4.5V	3.98	4.32	-	V
			I _O =-5.2mA;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 =4.0mA;V _{CC} =4.5V	-	0.15	0.26	V
			I _O =5.2mA;V _{CC} =6.0V	-	0.16	0.26	V

input leakage current	I _I	V _I =V _{CC} or GND; V _{CC} =6.0V	-	-	± 0.1	μA	
OFF-state output current	I _{OZ}	V _I =VH or V _{IL} ; V _O =V _{CC} or GND; V _{CC} =6.0V	-	-	± 0.5	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	
74HCT139							
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
LOW-level output voltage			I _O =-4.0uA	3.98	4.32	-	V
input leakage current	I _I	V _I =V _{CC} or GND; V _{CC} =5.5V	-	-	± 0.1	μA	
OFF-state output current	I _{OZ}	V _I =VH or V _{IL} ; V _O =V _{CC} or GND; V _{CC} =5.5V	-	-	± 0.5	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 =0V; V _{CC} =4.5V to 5.5V	per input pin; 1An inputs	-	70	252	μA
			per input pin; 2An inputs	-	70	252	μA
			per input pin; nE inputs	-	135	486	μA
input capacitance	C _I	-	-	3.5	-	pF	

DC Characteristics 2

(Tamb=-40°C to +85°C, voltages are referenced to GND (ground=0V), unless otherwise specified.)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
74HC139						
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 =-4.0mA; V _{CC} =4.5V	3.84	-	V



			Io=-5.2mA;V _{CC} =6.0V	5.34	-	-	V
LOW-level output voltage	V _{OL}	V _I =V _{IH} or V _{IL}	Io=20uA;V _{CC} =2.0V	-	-	0.1	V
			Io=20uA;V _{CC} =4.5V	-	-	0.1	V
			Io=20uA;V _{CC} =6.0V	-	-	0.1	V
			Io=4.0mA;V _{CC} =4.5V	-	-	0.33	V
			Io=5.2mA;V _{CC} =6.0V	-	-	0.33	V
input leakage current	I _I	Vi= 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 _O =V _{CC} or GND;V _{CC} =6.0V		-	-	±5.0	µA
supply current	I _{CC}	Vi=V _{CC} or GND;I _O =0A;V _{CC} =6.0V		-	-	80	µA
74HCT139							
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 =-20uA	4.4	-	-	V
			I _O =-4.0mA	3.84	-	-	V
LOW-level output voltage	V _{OL}	V _I =V _{IH} or V _{IL} V _{CC} =4.5V	I _O =20uA	-	-	0.1	V
			I _O =4.0mA	-	-	0.33	V
input leakage current	I _I	Vi= 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 _O =V _{CC} or GND;V _{CC} =5.5V		-	-	±5.0	µA
supply current	I _{CC}	Vi=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 =0V; V _{CC} =4.5V to 5.5V	per input pin; 1An inputs	-	-	315	µA
			per input pin; 2An inputs	-	-	315	µA
			per input pin; nE inputs	-	-	607.5	µA

DC Characteristics 3

(Tamb=-40°C to +105°C, voltages are referenced to GND (ground=0V), unless otherwise specified.)

Parameter	Symbol	Conditions		Min.	Typ.	Max.	Unit
74HC139							
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	V _{OH}	V _I =V _{IH} or V _{IL}	I _O =-20uA;V _{CC} =2.0V	1.9	-	-	V

output voltage			Io=-20uA;V _{CC} =4.5V	4.4	-	-	V
			Io=-20uA;V _{CC} =6.0V	5.9	-	-	V
			Io=-4.0mA;V _{CC} =4.5V	3.7	-	-	V
			Io=-5.2mA;V _{CC} =6.0V	5.2	-	-	V
LOW-level output voltage	V _{OL}	V _I =V _{IH} or V _{IL}	Io=20uA;V _{CC} =2.0V	-	-	0.1	V
			Io=20uA;V _{CC} =4.5V	-	-	0.1	V
			Io=20uA;V _{CC} =6.0V	-	-	0.1	V
			Io=4.0mA;V _{CC} =4.5V	-	-	0.4	V
			Io=5.2mA;V _{CC} =6.0V	-	-	0.4	V
input leakage current	I _I	Vi= V _{CC} or GND;V _{CC} =6.0V			-	-	±1.0 μA
OFF-state output currnd	I _{OZ}	V _I =V _{IH} or V _{IL} ;V _O =V _{CC} or GND;V _{CC} =6.0V			-	-	±10 μA
supply current	I _{CC}	Vi=V _{CC} or GND;I _O =0A;V _{CC} =6.0V			-	-	160 μA

74HCT139

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	Io=-20uA	4.4	-	-	V
			Io=-4.0mA	3.7	-	-	V
LOW-level output voltage	V _{OL}	V _I =V _{IH} or V _{IL} V _{CC} =4.5V	Io=20uA	-	-	0.1	V
			Io=4.0mA	-	-	0.4	V
input leakage current	I _I	Vi= V _{CC} or GND;V _{CC} =5.5V		-	-	±1.0	μA
OFF-state output currnd	I _{OZ}	V _I =V _{IH} or V _{IL} ;V _O =V _{CC} or GND;V _{CC} =5.5V		-	-	±10	μA
supply current	I _{CC}	Vi=V _{CC} or GND;I _O =0A;V _{CC} =5.5V		-	-	160	μA
additional supply current	ΔI _{CC}	V _I =V _{CC} -2.1V; other inputs at V _{CC} or GND;I _O =0V; V _{CC} =4.5V to 5.5V	per input pin; 1An inputs	-	-	343	μA
			per input pin; 2An inputs	-	-	343	μA
			per input pin; nE inputs	-	-	661.5	μA

AC Characteristics 1 (T_{amb}=25°C, GND =0V, C_L=50pF unless otherwise specified.)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit	
74HC139							
Propagation delay	t _{pd}	nAn to nYn see Figure6 ^[1]	V _{CC} =2.0V	-	39	145	ns
			V _{CC} =4.5V	-	14	29	ns
			V _{CC} =5.0V;CL=15pF	-	11	-	ns
			V _{CC} =6.0V	-	11	25	ns
		nE to nYn	V _{CC} =2.0V	-	33	135	ns

		see Figure7 ^[2]	V _{CC} =4.5V	-	12	27	ns
			V _{CC} =5.0V;CL=15pF	-	10	-	ns
			V _{CC} =6.0V	-	10	23	ns
transition time	t _t	n \bar{Y} n; see Figure6 and Figure7 ^[2]	V _{CC} =2.0V	-	19	75	ns
			V _{CC} =4.5V	-	7	15	ns
			V _{CC} =6.0V	-	6	13	ns
power dissipation capacitance	C _{PD}	C _L =50pF;f=1MHz;V _I =GND to V _{CC} ^[3]	-	42	-		pF
74HCT139							
Propagation delay	t _{pd}	nA _n to n \bar{Y} n see Figure6 ^[1]	V _{CC} =4.5V	-	16	34	ns
			V _{CC} =5.0V;C _L =15pF	-	13	-	ns
		n \bar{E} to n \bar{Y} n see Figure7 ^[2]	V _{CC} =4.5V	-	16	34	ns
			V _{CC} =5.0V;C _L =15pF	-	13	-	ns
transition time	t _t	n \bar{Y} n;V _{CC} =4.5V; see Figure6 and Figure7 ^[2]	-	7	15	ns	
power dissipation capacitance	C _{PD}	C _L =50pF;f=1MHz;V _I =GND to V _{CC} -1.5V ^[3]	-	44	-		pF

Note:

[1]t_{pd} is the same as tPLH and tPHL.

[2]t_t is the same as tTHL and tTLH.

[3]C_{PD} is used to determine the dynamic power dissipation (P_D in uW).

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

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;

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

AC Characteristics 2 (T_{amb}=-40°C to +85°C,GND=0V,C_L=50pF, unless otherwise specified.)

Parameter	Symbol	Conditions		Min.	Typ.	Max.	Unit
74HC139							
Propagation delay	t _{pd}	nA _n to n \bar{Y} n see Figure6 ^[1]	V _{CC} =2.0V	-	-	180	ns
			V _{CC} =4.5V	-	-	36	ns
			V _{CC} =6.0V	-	-	31	ns
		n \bar{E} to n \bar{Y} n see Figure7 ^[1]	V _{CC} =2.0V	-	-	170	ns
			V _{CC} =4.5V	-	-	34	ns
			V _{CC} =6.0V	-	-	29	ns

transition time	t_t	$n\bar{Y}_n$; see Figure6 and Figure7 ^[2]	$V_{CC}=2.0V$	-	-	95	ns
			$V_{CC}=4.5V$	-	-	19	ns
			$V_{CC}=6.0V$	-	-	16	ns
74HCT139							
Propagation delay	t_{pd}	nA_n to $n\bar{Y}_n$ see Figure6 ^[1]	$V_{CC}=4.5V$	-	-	43	ns
		$n\bar{E}$ to $n\bar{Y}_n$ see Figure7 ^[1]	$V_{CC}=4.5V$	-	-	43	ns
transition time	t_t	$n\bar{Y}_n; V_{CC}=4.5V;$ see Figure6 and Figure7 ^[2]		-	-	19	ns

Note:

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

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

AC Characteristics 3 (Tamb=-40°C to +105°C, GND=0V, $C_L=50pF$, unless otherwise specified.)

Parameter	Symbol	Conditions		Min.	Typ.	Max.	Unit
74HC139							
Propagation delay	t_{pd}	nA_n to $n\bar{Y}_n$ see Figure6 ^[1]	$V_{CC}=2.0V$	-	-	220	ns
			$V_{CC}=4.5V$	-	-	44	ns
			$V_{CC}=6.0V$	-	-	38	ns
		$n\bar{E}$ to $n\bar{Y}_n$ see Figure7 ^[1]	$V_{CC}=2.0V$	-	-	205	ns
			$V_{CC}=4.5V$	-	-	41	ns
			$V_{CC}=6.0V$	-	-	35	ns
transition time	t_t	$n\bar{Y}_n$; see Figure6 and Figure7 ^[2]	$V_{CC}=2.0V$	-	-	110	ns
			$V_{CC}=4.5V$	-	-	22	ns
			$V_{CC}=6.0V$	-	-	19	ns
74HCT139							
Propagation delay	t_{pd}	nA_n to $n\bar{Y}_n$ see Figure6 ^[1]	$V_{CC}=4.5V$	-	-	51	ns
		$n\bar{E}$ to $n\bar{Y}_n$ see Figure7 ^[1]	$V_{CC}=4.5V$	-	-	51	ns
transition time	t_t	$n\bar{Y}_n; V_{CC}=4.5V;$ see Figure6 and Figure7 ^[2]		-	-	22	ns

Note:

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

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

Testing Circuit

AC Testing Circuit

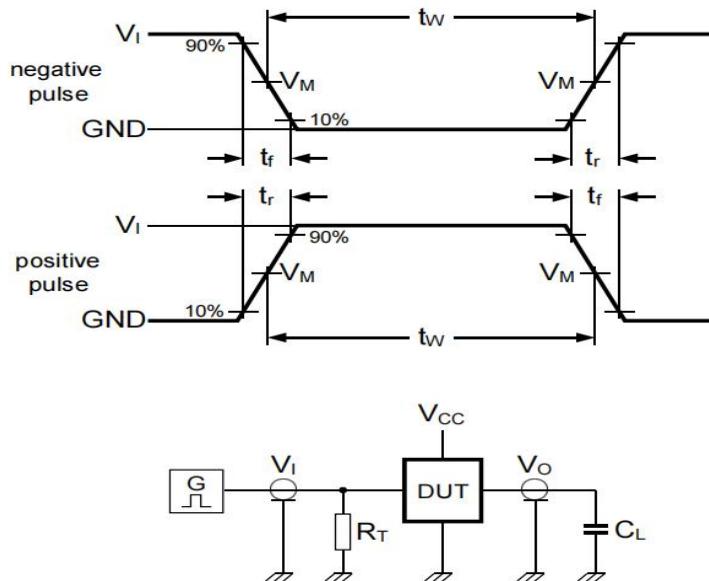


Figure 5. Test circuit for measuring switching times

Definitions for test circuit:

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.

R_L =Load resistance.

S1=Test selection switch.

AC Testing Waveforms

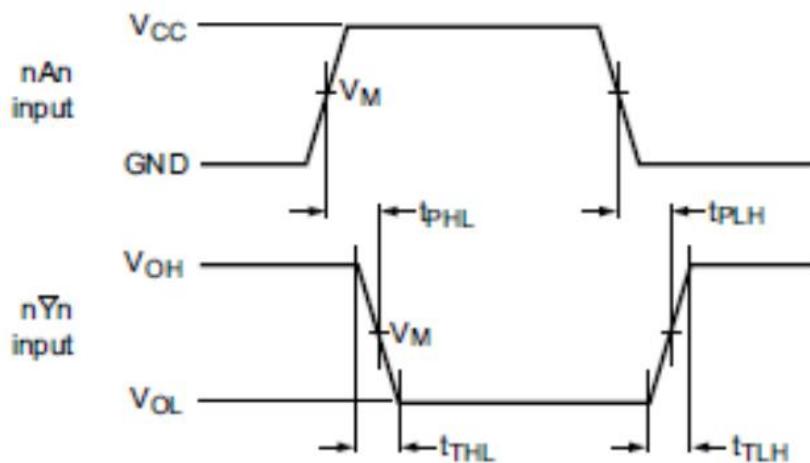


Figure 6. Propagation delay input (nA_n) to output (nY_n) and transition time output (nY_n)

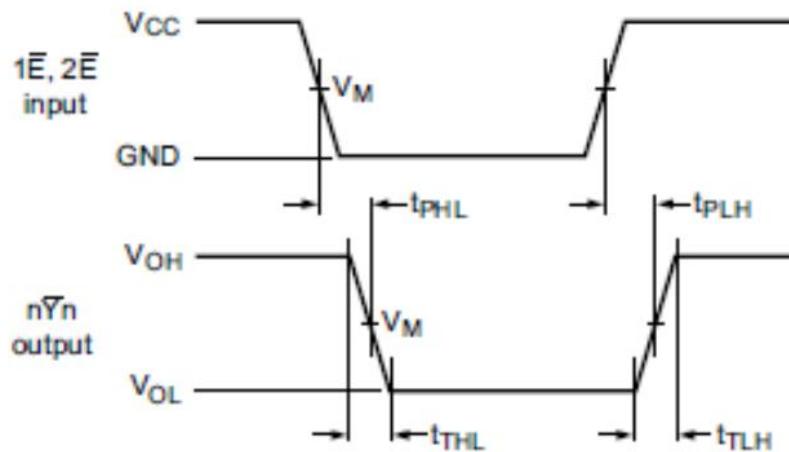


Figure 7. Propagation delay enable input ($n\bar{E}$) to output ($n\bar{Y}n$) and transition time output ($n\bar{Y}n$)

Measurement Points

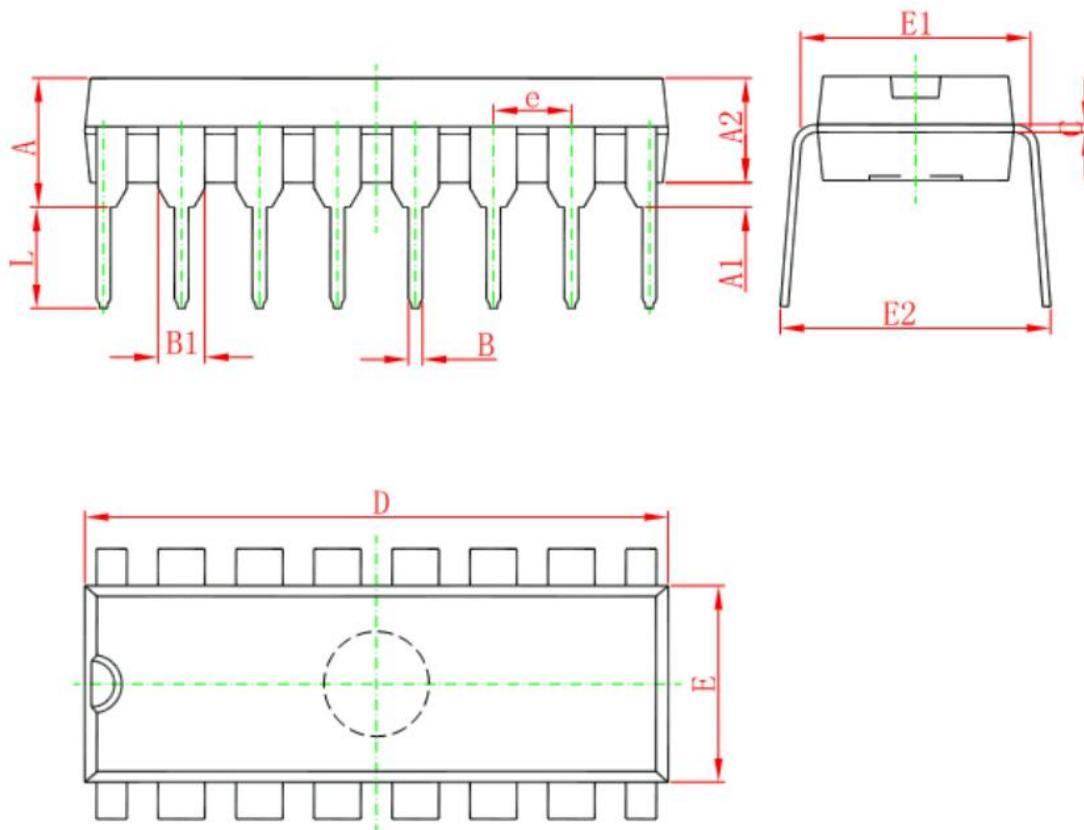
Type	Input		Output	
	VM	VM	VM	VM
74HC139	0.5×VCC		0.5×VCC	
74HCT139	1.3V		1.3V	

Test Data

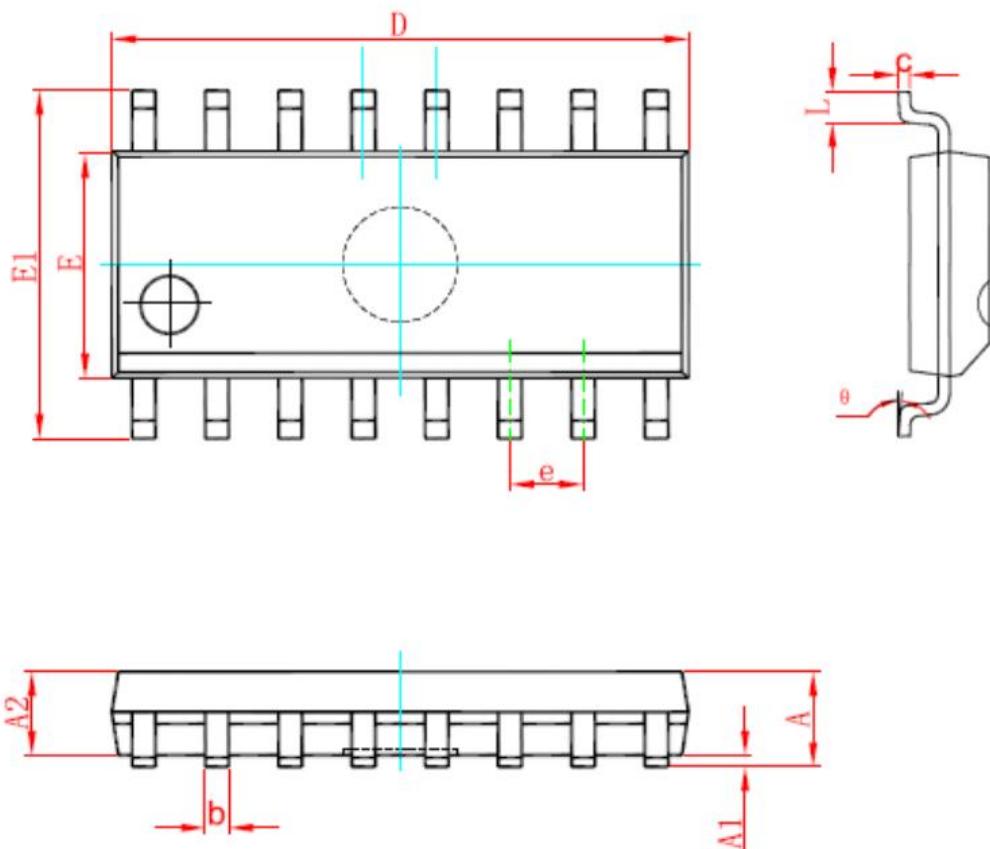
Type	Input		Load		S1 position		
	V _I	t _r , t _f	C _L	R _L	t _{PLH} , t _{PHL}	t _{PZH} , t _{PHZ}	t _{PZL} , t _{PLZ}
74HC139	VCC	6.0ns	15pF,50pF	1KΩ	open	GND	VCC
74HCT139	3.0V	6.0ns	15pF,50pF	1KΩ	open	GND	VCC

Package Information

DIP16

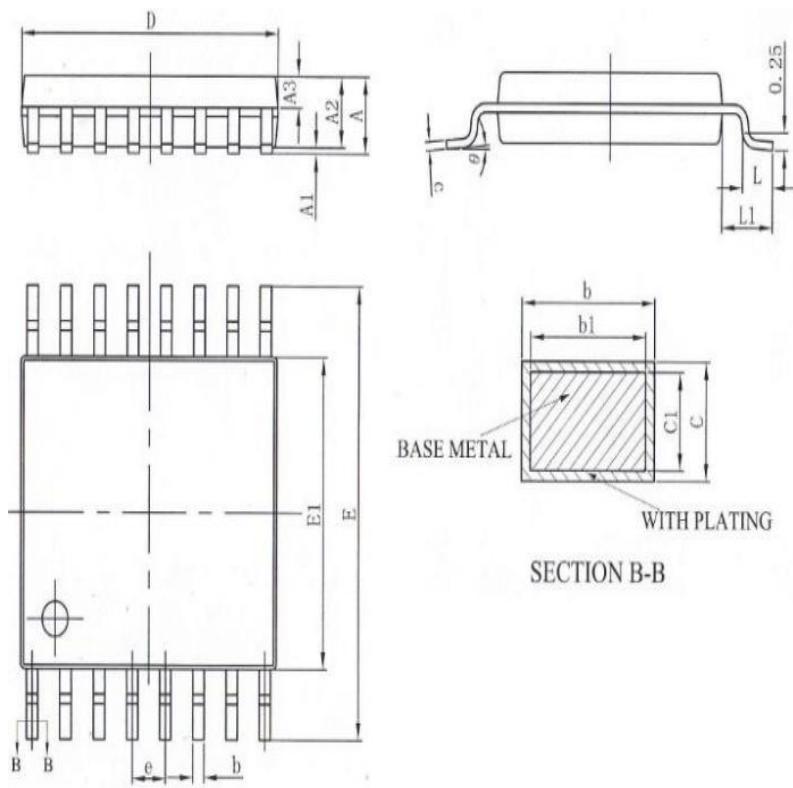


Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	3.710	4.310	0.146	0.170
A1	0.510		0.020	
A2	3.200	3.600	0.126	0.142
B	0.380	0.570	0.015	0.022
B1	1.524(BSC)		0.060(BSC)	
C	0.204	0.360	0.008	0.014
D	18.800	19.200	0.740	0.756
E	6.200	6.600	0.244	0.260
E1	7.320	7.920	0.288	0.312
e	2.540(BSC)		0.100(BSC)	
L	3.000	3.600	0.118	0.142
E2	8.400	9.000	0.331	0.354



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	1.350	1.750	0.053	0.069
A1	0.100	0.250	0.004	0.010
A2	1.350	1.550	0.053	0.061
b	0.330	0.510	0.013	0.020
C	0.170	0.250	0.007	0.010
D	9.800	10.200	0.386	0.402
E	3.800	4.000	0.150	0.157
E1	5.800	6.200	0.228	0.244
e	1.270(BSC)		0.050(BSC)	
L	0.400	1.270	0.016	0.050
θ	0°	8°	0°	8°

TSSOP16



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
cl	0.12	0.13	0.14
D	4.90	5.00	5.10
E	6.20	6.40	6.60
E1	4.30	4.40	4.50
e	0.65BSC		
L	0.45	0.60	0.75
L1	1.00BSC		
θ	0	-	8°

Statements And Notes

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	Butyl benzyl 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									

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[74VHC4052AFT\(BE\)](#) [TC74VHC138FK\(EL,K\)](#) [TC74HC151AF\(EL,F\)](#) [SN74HC145DR\(LX\)](#) [SN74HC139DR\(LX\)](#) [CD4028BM\(LX\)](#)