



AiP74LVC125

Quad Buffer/Line Driver; 3-state

Product Specification

Specification Revision History:

Version	Date	Description
2017-05-A1	2017-05	New
2023-04-B1	2023-04	Update the template
2025-05-B2	2025-05	Add VQFN14 package form
2025-12-B3	2025-12	Modify the supply voltage range; add the parameters at the condition of $V_{CC}=4.5V$ to $5.5V$; add ESD



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1、 General Description

The AiP74LVC125 consists of four non-inverting buffers/line drivers with 3-state outputs (nY) that are controlled by the output enable input ($\overline{\text{nOE}}$). A HIGH at $\overline{\text{nOE}}$ causes the outputs to assume a high-impedance OFF-state.

Inputs can be driven from either 3.3V or 5V devices. When disabled, up to 5.5V can be applied to the outputs.

Features:

- 5V tolerant inputs/outputs for interfacing with 5V logic
- Wide supply voltage range from 1.2V to 5.5V
- CMOS low power consumption
- Direct interface with TTL levels
- Specified from -40°C to +125°C
- Packaging information: DIP14/SOP14/TSSOP14/VQFN14

**Ordering Information:****Tube packing specifications:**

Part number	Packaging form	Marking code	Tube quantity	Boxed tube quantity	Boxed quantity	Notes
AiP74LVC125DA14.TB	DIP14	74LVC125	25 PCS/tube	40 tube/box	1000 PCS/box	Dimensions of plastic enclosure: 19.0mm×6.4mm Pin spacing: 2.54mm
AiP74LVC125SA14.TB	SOP14	74LVC125	50 PCS/tube	200 tube/box	10000 PCS/box	Dimensions of plastic enclosure: 8.7mm×3.9mm Pin spacing: 1.27mm
AiP74LVC125TA14.TB	TSSOP14	74LVC125	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
AiP74LVC125SA14.TR	SOP14	74LVC125	4000 PCS/reel	8000 PCS/box	Dimensions of plastic enclosure: 8.7mm×3.9mm Pin spacing: 1.27mm
AiP74LVC125TA14.TR	TSSOP14	74LVC125	5000 PCS/reel	10000 PCS/box	Dimensions of plastic enclosure: 5.0mm×4.4mm Pin spacing: 0.65mm
AiP74LVC125QK14.TR	VQFN14	74LVC125	5000 PCS/reel	10000 PCS/box	Dimensions of plastic enclosure: 3.5mm×3.5mm 3in spacing: 0.50mm

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

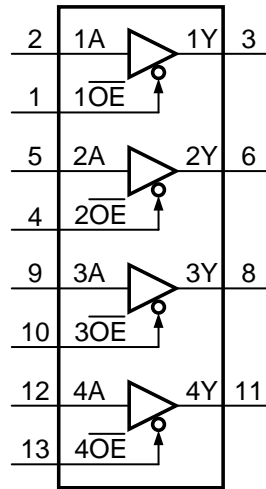


Figure 1. Logic symbol

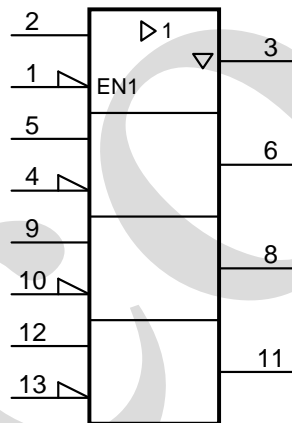


Figure 2. IEC logic symbol

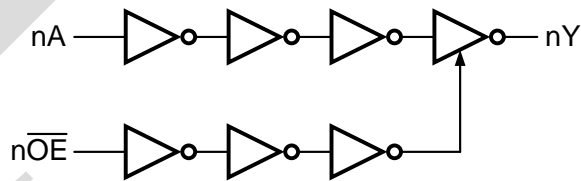
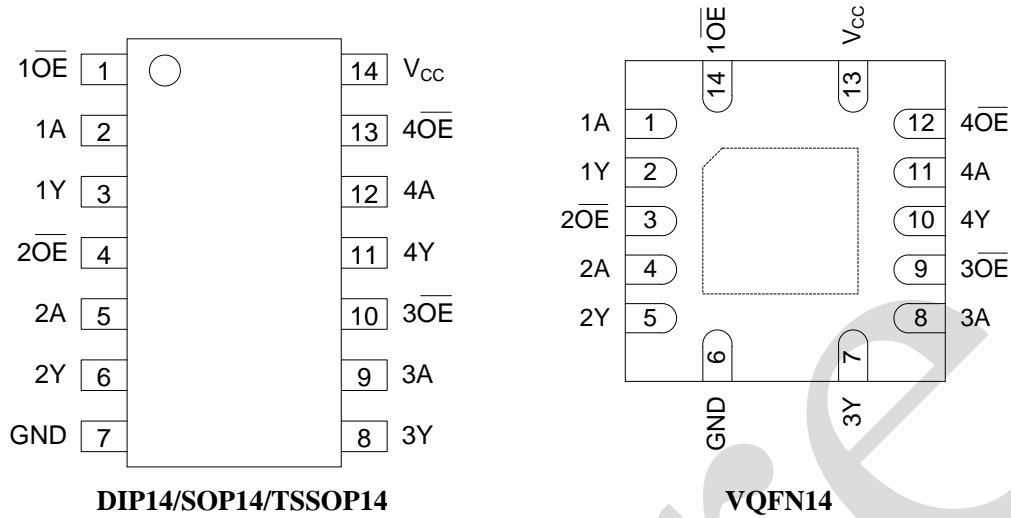


Figure 3. Logic diagram



2.2、Pin Configuration



2.3、Pin Description

Pin No.		Pin Name	Description
DIP14/SOP14/TSSOP14	VQFN14		
1	14	1OE	data enable input (active LOW)
2	1	1A	data input
3	2	1Y	data output
4	3	2OE	data enable input (active LOW)
5	4	2A	data input
6	5	2Y	data output
7	6	GND	ground (0V)
8	7	3Y	data output
9	8	3A	data input
10	9	3OE	data enable input (active LOW)
11	10	4Y	data output
12	11	4A	data input
13	12	4OE	data enable input (active LOW)
14	13	V _{CC}	supply voltage

2.4、Function Table

Input		Output
nOE	nA	nY
L	L	L
L	H	H
H	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	+6.5	V	
input clamping current	I_{IK}	$V_I < 0V$	-50	-	mA	
input voltage	V_I	-	-0.5	+6.5	V	
output clamping current	I_{OK}	$V_O > V_{CC}$ or $V_O < 0V$	-	± 50	mA	
output voltage	V_O	output HIGH or LOW-state	-0.5	$V_{CC}+0.5$	V	
		output 3-state	-0.5	+6.5	V	
output current	I_O	$V_O=0V$ to V_{CC}	-	± 50	mA	
supply current	I_{CC}	-	-	100	mA	
ground current	I_{GND}	-	-100	-	mA	
total power dissipation	P_{tot}	-	-	500	mW	
storage temperature	T_{stg}	-	-65	+150	°C	
soldering Temperature	T_L	10s	DIP		245	°C
			SOP/TSSOP/VQFN		260	°C
electrostatic discharge	ESD	HBM			2000	V

3.2、Recommended Operating Conditions

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
supply voltage	V_{CC}	-	1.65	-	5.5	V
		functional	1.2	-	-	V
input voltage	V_I	-	0	-	5.5	V
output voltage	V_O	output HIGH or LOW-state	0	-	V_{CC}	V
		output 3-state	0	-	5.5	V
ambient temperature	T_{amb}	-	-40	-	+125	°C
input transition rise and fall rate	$\Delta t/\Delta V$	$V_{CC}=2.3V$ to $2.7V$	0	-	20	ns/V
		$V_{CC}=2.7V$ to $3.6V$	0	-	10	ns/V



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	Conditions	Min.	Typ.	Max.	Unit	
HIGH-level input voltage	V_{IH}	$V_{CC}=1.2\text{V}$	1.08	-	-	V	
		$V_{CC}=1.65\text{V}$ to 1.95V	$0.65 \times V_{CC}$	-	-	V	
		$V_{CC}=2.3\text{V}$ to 2.7V	1.7	-	-	V	
		$V_{CC}=2.7\text{V}$ to 3.6V	2.0	-	-	V	
		$V_{CC}=4.5\text{V}$ to 5.5V	$0.7 \times V_{CC}$	-	-	V	
LOW-level input voltage	V_{IL}	$V_{CC}=1.2\text{V}$	-	-	0.12	V	
		$V_{CC}=1.65\text{V}$ to 1.95V	-	-	$0.35 \times V_{CC}$	V	
		$V_{CC}=2.3\text{V}$ to 2.7V	-	-	0.7	V	
		$V_{CC}=2.7\text{V}$ to 3.6V	-	-	0.8	V	
		$V_{CC}=4.5\text{V}$ to 5.5V	-	-	$0.3 \times V_{CC}$	V	
HIGH-level output voltage	V_{OH}	$V_I = V_{IH}$ or V_{IL}	$I_O=-100\mu\text{A}; V_{CC}=1.65\text{V}$ to 5.5V	$V_{CC} - 0.2$	-	-	V
			$I_O=-4\text{mA}; V_{CC}=1.65\text{V}$	1.2	-	-	V
			$I_O=-8\text{mA}; V_{CC}=2.3\text{V}$	1.8	-	-	V
			$I_O=-12\text{mA}; V_{CC}=2.7\text{V}$	2.2	-	-	V
			$I_O=-18\text{mA}; V_{CC}=3.0\text{V}$	2.4	-	-	V
			$I_O=-24\text{mA}; V_{CC}=3.0\text{V}$	2.2	-	-	V
			$I_O=-32\text{mA}; V_{CC}=4.5\text{V}$	3.8	-	-	V
LOW-level output voltage	V_{OL}	$V_I = V_{IH}$ or V_{IL}	$I_O=100\mu\text{A}; V_{CC}=1.65\text{V}$ to 5.5V	-	-	0.2	V
			$I_O=4\text{mA}; V_{CC}=1.65\text{V}$	-	-	0.45	V
			$I_O=8\text{mA}; V_{CC}=2.3\text{V}$	-	-	0.6	V
			$I_O=12\text{mA}; V_{CC}=2.7\text{V}$	-	-	0.4	V
			$I_O=24\text{mA}; V_{CC}=3.0\text{V}$	-	-	0.55	V
			$I_O=32\text{mA}; V_{CC}=4.5\text{V}$	-	-	0.55	V
input leakage current	I_I	$V_I=5.5\text{V}$ or GND; $V_{CC}=3.6\text{V}$	-	-	± 5	μA	
OFF-state output current	I_{OZ}	$V_I=V_{IH}$ or $V_{IL}; V_O=5.5\text{V}$ or GND; $V_{CC}=3.6\text{V}$	-	-	± 5	μA	
power-off leakage current	I_{OFF}	V_I or $V_O=5.5\text{V}; V_{CC}=0\text{V}$	-	-	± 10	μA	
supply current	I_{CC}	$V_I=V_{CC}$ or GND; $I_O=0\text{A}; V_{CC}=3.6\text{V}$	-	-	10	μA	
additional supply current	ΔI_{CC}	per input pin; $V_I=V_{CC}-0.6\text{V}; I_O=0\text{A}; V_{CC}=2.7\text{V}$ to 3.6V	-	-	500	μA	
input capacitance	C_I	$V_{CC}=0\text{V}$ to $3.6\text{V}; V_I=$ GND to V_{CC}	-	4.0	-	pF	

Note: All typical values are measured at $V_{CC}=3.3\text{V}$ (unless stated otherwise) and $T_{amb}=25^{\circ}\text{C}$.



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	Conditions	Min.	Typ.	Max.	Unit	
HIGH-level input voltage	V_{IH}	$V_{CC}=1.2\text{V}$	1.08	-	-	V	
		$V_{CC}=1.65\text{V}$ to 1.95V	$0.65 \times V_{CC}$	-	-	V	
		$V_{CC}=2.3\text{V}$ to 2.7V	1.7	-	-	V	
		$V_{CC}=2.7\text{V}$ to 3.6V	2.0	-	-	V	
		$V_{CC}=4.5\text{V}$ to 5.5V	$0.7 \times V_{CC}$	-	-	V	
LOW-level input voltage	V_{IL}	$V_{CC}=1.2\text{V}$	-	-	0.12	V	
		$V_{CC}=1.65\text{V}$ to 1.95V	-	-	$0.35 \times V_{CC}$	V	
		$V_{CC}=2.3\text{V}$ to 2.7V	-	-	0.7	V	
		$V_{CC}=2.7\text{V}$ to 3.6V	-	-	0.8	V	
		$V_{CC}=4.5\text{V}$ to 5.5V	-	-	$0.3 \times V_{CC}$	V	
HIGH-level output voltage	V_{OH}	$V_I = V_{IH}$ or V_{IL}	$I_O=-100\mu\text{A}$; $V_{CC}=1.65\text{V}$ to 5.5V	$V_{CC} - 0.3$	-	-	V
			$I_O=-4\text{mA}$; $V_{CC}=1.65\text{V}$	1.05	-	-	V
			$I_O=-8\text{mA}$; $V_{CC}=2.3\text{V}$	1.65	-	-	V
			$I_O=-12\text{mA}$; $V_{CC}=2.7\text{V}$	2.05	-	-	V
			$I_O=-18\text{mA}$; $V_{CC}=3.0\text{V}$	2.25	-	-	V
			$I_O=-24\text{mA}$; $V_{CC}=3.0\text{V}$	2.0	-	-	V
			$I_O=-32\text{mA}$; $V_{CC}=4.5\text{V}$	3.4	-	-	V
LOW-level output voltage	V_{OL}	$V_I = V_{IH}$ or V_{IL}	$I_O=100\mu\text{A}$; $V_{CC}=1.65\text{V}$ to 5.5V	-	-	0.3	V
			$I_O=4\text{mA}$; $V_{CC}=1.65\text{V}$	-	-	0.65	V
			$I_O=8\text{mA}$; $V_{CC}=2.3\text{V}$	-	-	0.8	V
			$I_O=12\text{mA}$; $V_{CC}=2.7\text{V}$	-	-	0.6	V
			$I_O=24\text{mA}$; $V_{CC}=3.0\text{V}$	-	-	0.8	V
			$I_O=32\text{mA}$; $V_{CC}=4.5\text{V}$	-	-	0.8	V
input leakage current	I_I	$V_I=5.5\text{V}$ or GND; $V_{CC}=3.6\text{V}$	-	-	± 20	μA	
OFF-state output current	I_{OZ}	$V_I=V_{IH}$ or V_{IL} ; $V_O=5.5\text{V}$ or GND; $V_{CC}=3.6\text{V}$	-	-	± 20	μA	
power-off leakage current	I_{OFF}	V_I or $V_O=5.5\text{V}$; $V_{CC}=0\text{V}$	-	-	± 20	μA	
supply current	I_{CC}	$V_I=V_{CC}$ or GND; $I_O=0\text{A}$; $V_{CC}=3.6\text{V}$	-	-	40	μA	
additional supply current	ΔI_{CC}	per input pin; $V_I=V_{CC}-0.6\text{V}$; $I_O=0\text{A}$; $V_{CC}=2.7\text{V}$ to 3.6V	-	-	5000	μA	

Note: All typical values are measured at $V_{CC}=3.3\text{V}$ (unless stated otherwise) and $T_{amb}=25^{\circ}\text{C}$.



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	Conditions	Min.	Typ.	Max.	Unit	
nA, to nY propagation delay	t_{pd}	see Figure 5	$V_{CC}=1.2V$	-	12.0	-	ns
			$V_{CC}=1.65V$ to $1.95V$	1.5	5.4	11.0	ns
			$V_{CC}=2.3V$ to $2.7V$	1.0	2.9	5.7	ns
			$V_{CC}=2.7V$	1.5	2.8	5.5	ns
			$V_{CC}=3.0V$ to $3.6V$	1.0	2.5	4.8	ns
			$V_{CC}=4.5V$ to $5.5V$	1.0	2.2	4.2	ns
\overline{nOE} to nY enable time	t_{en}	see Figure 6	$V_{CC}=1.2V$	-	16.0	-	ns
			$V_{CC}=1.65V$ to $1.95V$	1.0	5.0	12.2	ns
			$V_{CC}=2.3V$ to $2.7V$	0.5	2.9	6.8	ns
			$V_{CC}=2.7V$	1.5	3.1	6.6	ns
			$V_{CC}=3.0V$ to $3.6V$	1.0	2.3	5.4	ns
			$V_{CC}=4.5V$ to $5.5V$	1.0	2.0	4.7	ns
\overline{nOE} to nY disable time	t_{dis}	see Figure 6	$V_{CC}=1.2V$	-	7.0	-	ns
			$V_{CC}=1.65V$ to $1.95V$	2.2	4.6	7.5	ns
			$V_{CC}=2.3V$ to $2.7V$	0.5	2.6	4.2	ns
			$V_{CC}=2.7V$	1.5	3.1	5.0	ns
			$V_{CC}=3.0V$ to $3.6V$	1.0	3.2	4.6	ns
			$V_{CC}=4.5V$ to $5.5V$	1.0	2.8	4.0	ns
output skew time	$t_{sk(o)}$	$V_{CC}=3.0V$ to $3.6V$	-	-	1.0	ns	
Power dissipation capacitance	C_{PD}	per buffer; $V_I=GND$ to V_{CC}	$V_{CC}=1.65V$ to $1.95V$	-	6.0	-	pF
			$V_{CC}=2.3V$ to $2.7V$	-	9.4	-	pF
			$V_{CC}=3.0V$ to $3.6V$	-	12.4	-	pF

Note:

[1] Typical values are measured at $T_{amb}=25^{\circ}C$ and $V_{CC}=1.2V, 1.8V, 2.5V, 2.7V$ and $3.3V$ respectively.

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

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

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

[3] Skew between any two outputs of the same package switching in the same direction. This parameter is guaranteed by design.

[4] 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;

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



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	Conditions	Min.	Typ.	Max.	Unit	
nA, to nY propagation delay	t_{pd}	see Figure 5	$V_{CC}=1.65\text{V}$ to 1.95V	1.5	-	12.8	ns
			$V_{CC}=2.3\text{V}$ to 2.7V	1.0	-	6.7	ns
			$V_{CC}=2.7\text{V}$	1.5	-	7.0	ns
			$V_{CC}=3.0\text{V}$ to 3.6V	1.0	-	6.0	ns
			$V_{CC}=4.5\text{V}$ to 5.5V	1.0	-	5.2	ns
$\overline{\text{nOE}}$ to nY enable time	t_{en}	see Figure 6	$V_{CC}=1.65\text{V}$ to 1.95V	1.0	-	14.2	ns
			$V_{CC}=2.3\text{V}$ to 2.7V	0.5	-	7.9	ns
			$V_{CC}=2.7\text{V}$	1.5	-	8.5	ns
			$V_{CC}=3.0\text{V}$ to 3.6V	1.0	-	7.0	ns
			$V_{CC}=4.5\text{V}$ to 5.5V	1.0	-	6.1	ns
$\overline{\text{nOE}}$ to nY disable time	t_{dis}	see Figure 6	$V_{CC}=1.65\text{V}$ to 1.95V	2.2	-	8.7	ns
			$V_{CC}=2.3\text{V}$ to 2.7V	0.5	-	5.0	ns
			$V_{CC}=2.7\text{V}$	1.5	-	6.5	ns
			$V_{CC}=3.0\text{V}$ to 3.6V	1.0	-	6.0	ns
			$V_{CC}=4.5\text{V}$ to 5.5V	1.0	-	5.2	ns
output skew time	$t_{sk(o)}$	$V_{CC}=3.0\text{V}$ to 3.6V	-	-	1.5	ns	

Note:

[1] Typical values are measured at $T_{amb}=25^{\circ}\text{C}$ and $V_{CC}=1.2\text{V}$, 1.8V , 2.5V , 2.7V and 3.3V respectively.

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

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

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

[3] Skew between any two outputs of the same package switching in the same direction. This parameter is guaranteed by design.



4、Testing Circuit

4.1、AC Testing Circuit

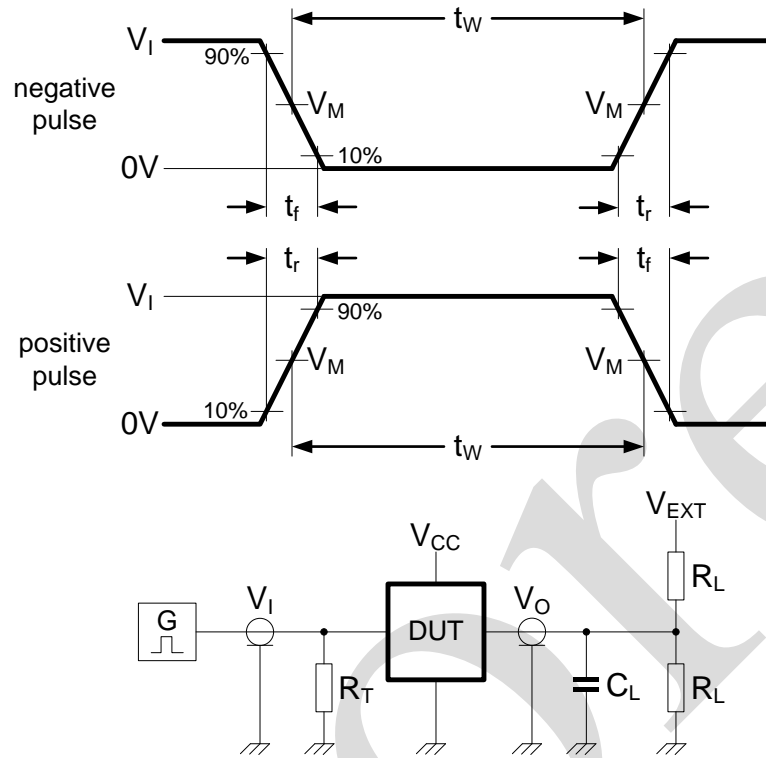


Figure 4. Test circuit for measuring switching times

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.

V_{EXT} =External voltage for measuring switching times.

4.2、AC Testing Waveforms

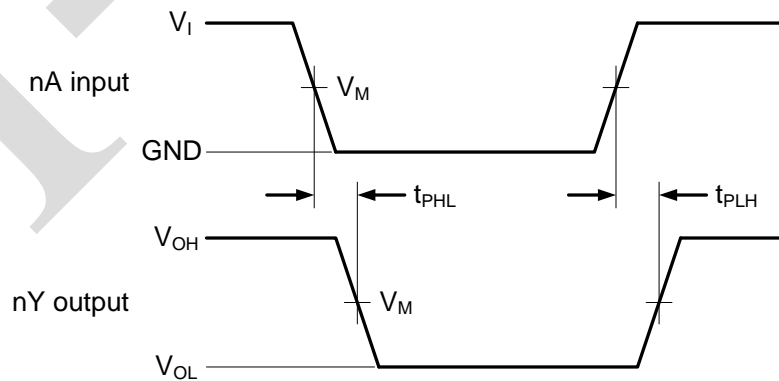


Figure 5. The input (nA) to output (nY) propagation delays

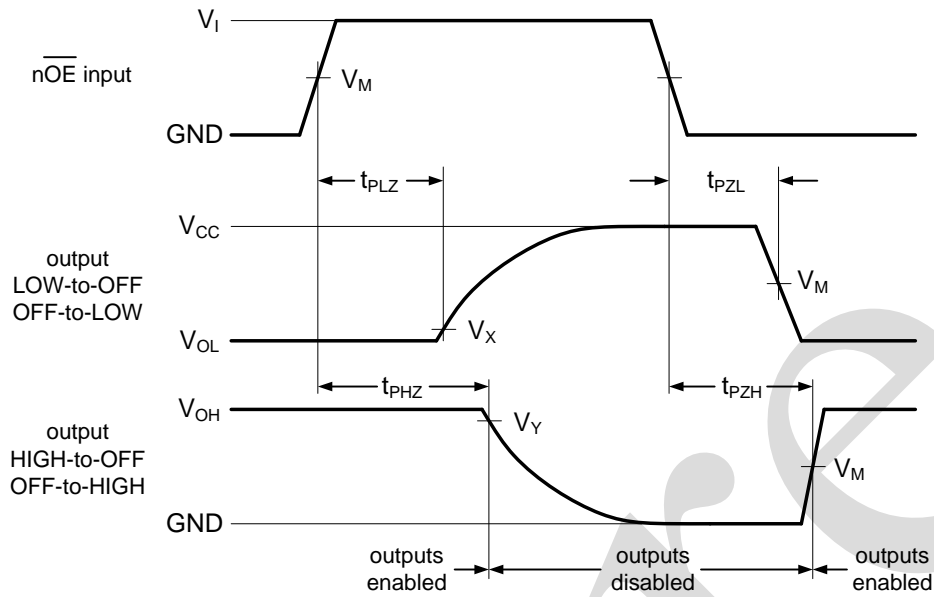


Figure 6. 3-state enable and disable times

4.3、 Measurement Points

Supply voltage	Input		Output
V_{CC}	V_I	V_M	V_M
1.2V	V_{CC}	$0.5 \times V_{CC}$	$0.5 \times V_{CC}$
1.65V to 1.95V	V_{CC}	$0.5 \times V_{CC}$	$0.5 \times V_{CC}$
2.3V to 2.7V	V_{CC}	$0.5 \times V_{CC}$	$0.5 \times V_{CC}$
2.7V	2.7V	1.5V	1.5V
3.0V to 3.6V	2.7V	1.5V	1.5V

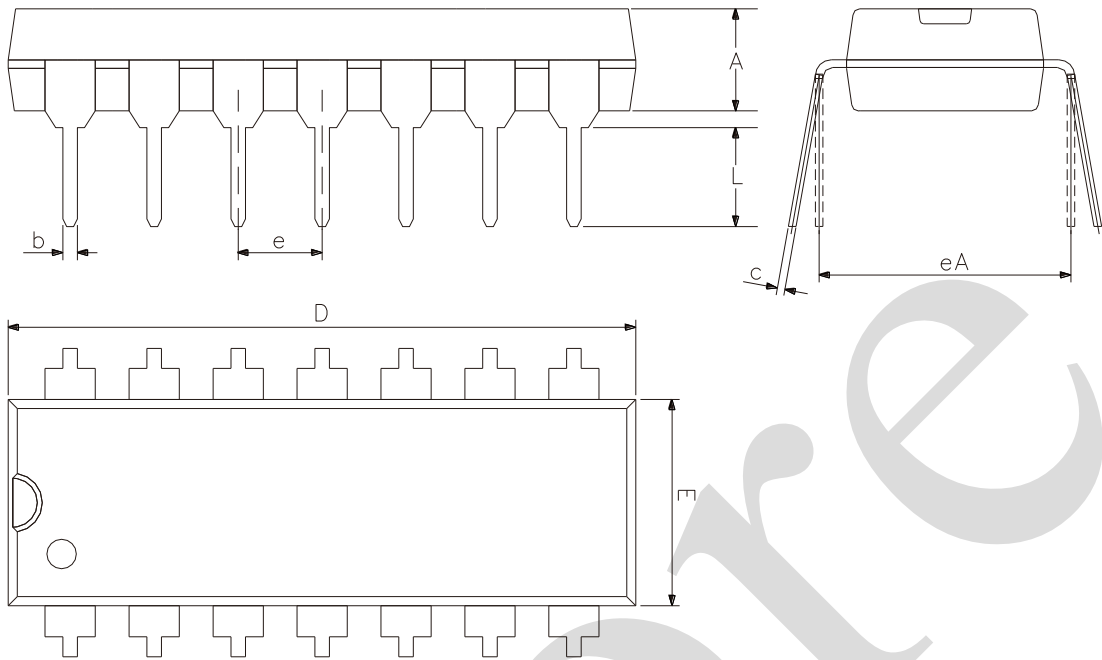
4.4、 Test Data

Supply voltage	Input		Load		V_{EXT}		
V_{CC}	V_I	t_r, t_f	C_L	R_L	t_{PLH}, t_{PHL}	t_{PZH}, t_{PHZ}	t_{PZL}, t_{PLZ}
1.2V	V_{CC}	$\leq 2.0ns$	30pF	1k Ω	open	GND	$2 \times V_{CC}$
1.65V to 1.95V	V_{CC}	$\leq 2.0ns$	30pF	1k Ω	open	GND	$2 \times V_{CC}$
2.3V to 2.7V	V_{CC}	$\leq 2.0ns$	30pF	500 Ω	open	GND	$2 \times V_{CC}$
2.7V	2.7V	$\leq 2.5ns$	50pF	500 Ω	open	GND	$2 \times V_{CC}$
3.0V to 3.6V	2.7V	$\leq 2.5ns$	50pF	500 Ω	open	GND	$2 \times V_{CC}$



5、Package Information

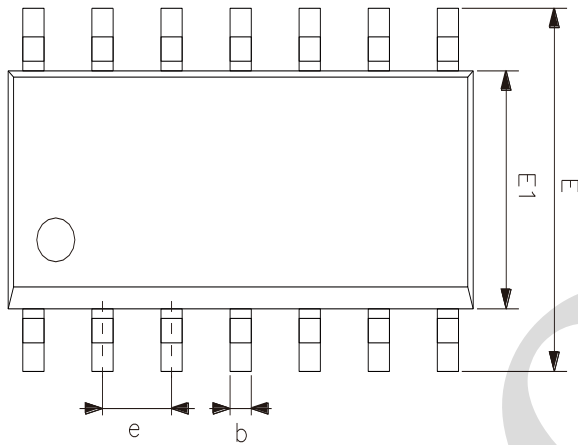
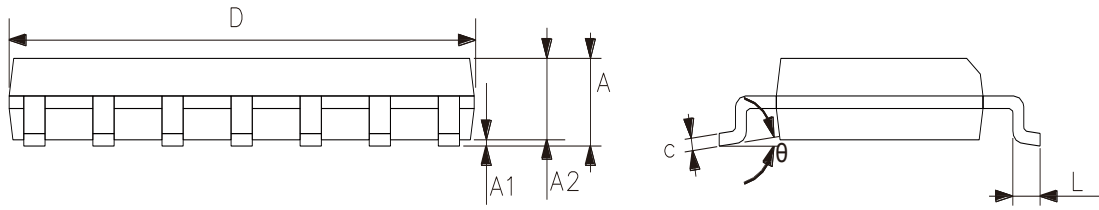
5.1、DIP14



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	—



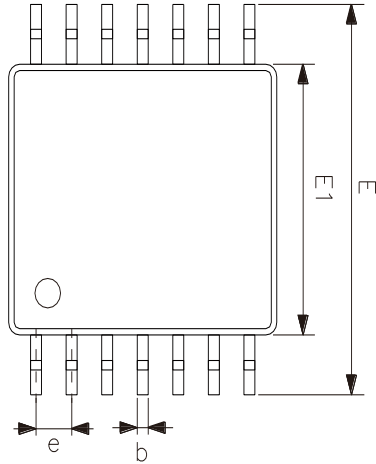
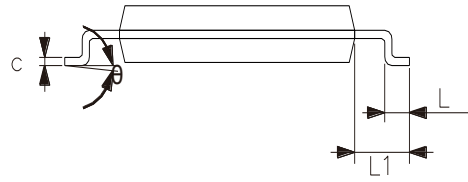
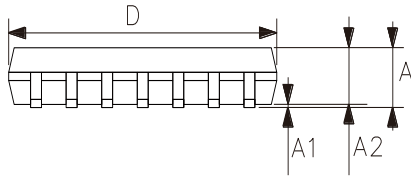
5.2、SOP14



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°



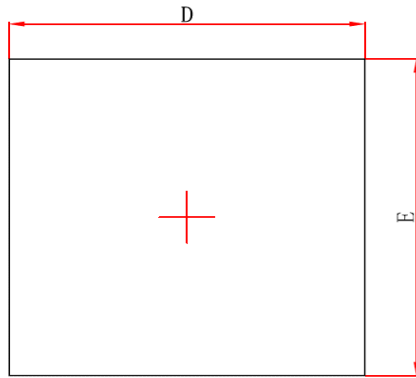
5.3、TSSOP14



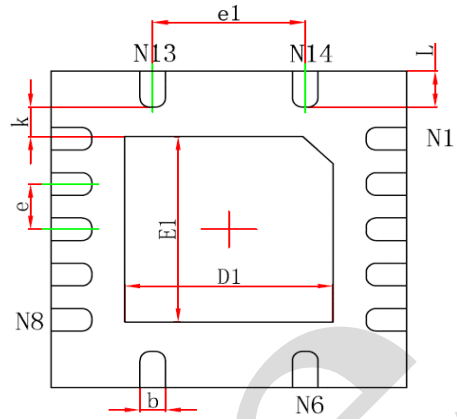
2023/12/A	Dimensions In Millimeters	
Symbol	Min	Max
A	—	1.20
A1	0.05	0.15
A2	0.80	1.05
b	0.19	0.30
c	0.09	0.20
D	4.90	5.10
E1	4.30	4.50
E	6.20	6.60
e	0.65	
L	0.45	0.75
L1	1.00	
θ	0°	8°



5.4、VQFN14



Top View



Bottom View



Side View

2024/08/A	Dimensions In Millimeters	
	Symbol	Min
A	0.70	0.90
A1	0	0.05
A3	0.203 REF	
D	3.424	3.576
E	3.424	3.576
D1	1.95	2.15
E1	1.95	2.15
k	0.20	—
b	0.20	0.30
e	0.50	
e1	1.50	
L	0.324	0.476



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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