



# AiP74LV245

## Octal Bus Transceiver; 3-State

### Product Specification

**Specification Revision History:**

Version	Date	Description
2025-11-A0	2025-11	New
2026-03-A1	2026-03	Modify the parameters



# 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.....	6
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 .....	8
3.3.1、 DC Characteristics 1 .....	8
3.3.2、 DC Characteristics 2 .....	9
3.3.3、 AC Characteristics 1 .....	10
3.3.4、 AC Characteristics 2 .....	11
<b>4、 Testing Circuit .....</b>	<b>12</b>
4.1、 AC Testing Circuit .....	12
4.2、 AC Testing Waveforms.....	12
4.3、 Measurement Points .....	13
4.4、 Test Data .....	13
<b>5、 Package Information .....</b>	<b>14</b>
5.1、 DIP20 .....	14
5.2、 SOP20 .....	15
5.3、 TSSOP20.....	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 AiP74LV245 is an 8-bit transceiver with 3-state outputs. The device features an output enable ( $\overline{OE}$ ) and send/receive (DIR) for direction control. A HIGH on  $\overline{OE}$  causes the outputs to assume a high-impedance OFF-state.

### Features:

- Operating voltage: 2.0V to 5.5V
- 5.5V tolerant inputs/outputs
- Power-down mode
- Specified from -40°C to +125°C
- Packaging information: DIP20/SOP20/TSSOP20



## Ordering Information:

### Tube packing specifications:

Part number	Packaging form	Marking code	Tube quantity	Boxed tube quantity	Boxed quantity	Notes	Moisture sensitivity level
AiP74LV245DA20.TB	DIP20	74LV245	18 PCS/tube	40 tube/box	720 PCS/box	Dimensions of plastic enclosure: 26.3mm×6.4mm Pin spacing: 2.54mm	-
AiP74LV245SA20.TB	SOP20	74LV245	35 PCS/tube	80 tube/box	2800 PCS/box	Dimensions of plastic enclosure: 12.8mm×7.5mm Pin spacing: 1.27mm	MSL3

### Reel packing specifications:

Part number	Packaging form	Marking code	Reel quantity	Boxed reel quantity	Notes	Moisture sensitivity level
AiP74LV245SA20.TR	SOP20	74LV245	2000 PCS/reel	2000 PCS/box	Dimensions of plastic enclosure: 12.8mm×7.5mm Pin spacing: 1.27mm	MSL3
AiP74LV245TA20.TR	TSSOP20	74LV245	4000 PCS/reel	8000 PCS/box	Dimensions of plastic enclosure: 6.5mm×4.4mm Pin spacing: 0.65mm	MSL3

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

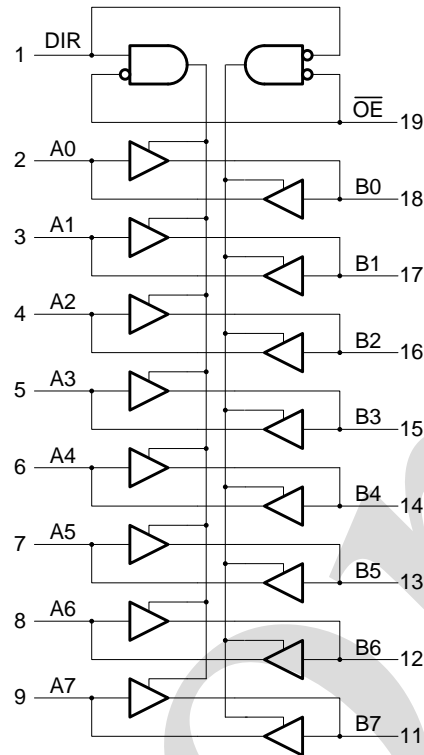


Figure 1. Logic symbol

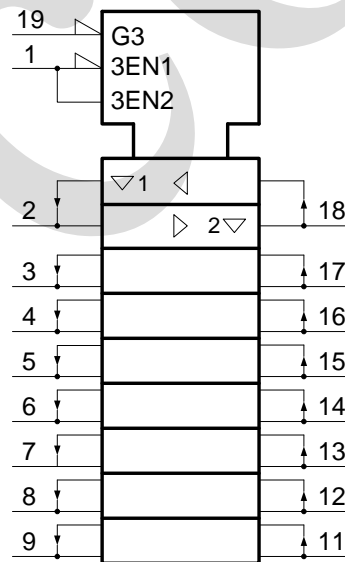
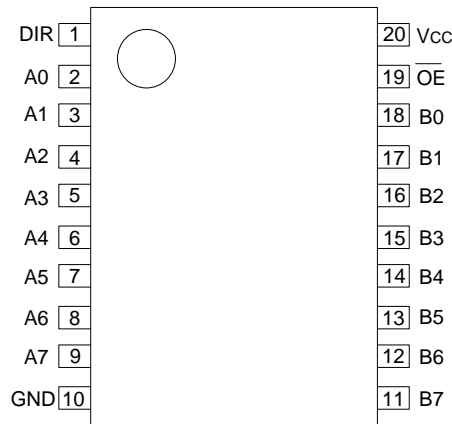


Figure 2. IEC logic symbol



## 2.2、Pin Configurations



## 2.3、Pin Description

Pin No.	Pin Name	Description
1	DIR	direction control
2	A0	data input/output
3	A1	data input/output
4	A2	data input/output
5	A3	data input/output
6	A4	data input/output
7	A5	data input/output
8	A6	data input/output
9	A7	data input/output
10	GND	ground (0V)
11	B7	data input/output
12	B6	data input/output
13	B5	data input/output
14	B4	data input/output
15	B3	data input/output
16	B2	data input/output
17	B1	data input/output
18	B0	data input/output
19	OE	output enable input (active LOW)
20	V <sub>CC</sub>	supply voltage

## 2.4、Function Table

Input		Input/Output	
OE	DIR	A <sub>n</sub>	B <sub>n</sub>
L	L	A=B	input
L	H	input	B=A
H	X	Z	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 $V_I > V_{CC}+0.5V$	-	$\pm 20$	mA
output clamping current	$I_{OK}$	$V_O < -0.5V$ or $V_O > V_{CC}+0.5V$	-	$\pm 50$	mA
output current	$I_O$	$-0.5V < V_O < V_{CC}+0.5V$	-	$\pm 35$	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	
electrostatic discharge	ESD	HBM	2000		V

Note:

[1] Stresses beyond those listed may cause permanent damage to the device. These are stress ratings only and functional operation of the device at these or any other conditions beyond those indicated under “recommended operating conditions” is not implied. Exposure to absolute-maximum-rated conditions for extended periods may affect device reliability.

### 3.2、Recommended Operating Conditions

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
supply voltage	$V_{CC}$	-	2.0	-	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	°C
input transition rise and fall rate	$\Delta t/\Delta V$	$V_{CC}=2.3V$ to $2.7V$	-	-	200	ns/V
		$V_{CC}=3.0V$ to $3.6V$	-	-	100	ns/V
		$V_{CC}=4.5V$ to $5.5V$	-	-	20	ns/V

Note: The LV is guaranteed to function down to  $V_{CC}=1.0V$  (input levels GND or  $V_{CC}$ ); DC characteristics are guaranteed from  $V_{CC}=1.2V$  to  $V_{CC}=5.5V$ .



## 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	$V_{IH}$	$V_{CC}=2V$	1.5	-	-	V	
		$V_{CC}=2.3V$ to $2.7V$	$0.7 \times V_{CC}$	-	-	V	
		$V_{CC}=3.0V$ to $3.6V$	$0.7 \times V_{CC}$	-	-	V	
		$V_{CC}=4.5V$ to $5.5V$	$0.7 \times V_{CC}$	-	-	V	
LOW-level input voltage	$V_{IL}$	$V_{CC}=2V$	-	-	0.5	V	
		$V_{CC}=2.3V$ to $2.7V$	-	-	$0.3 \times V_{CC}$	V	
		$V_{CC}=3.0V$ to $3.6V$	-	-	$0.3 \times V_{CC}$	V	
		$V_{CC}=4.5V$ to $5.5V$	-	-	$0.3 \times V_{CC}$	V	
HIGH-level output voltage	$V_{OH}$	$V_I = V_{IH}$ or $V_{IL}$	$I_O=-50\mu A$ ; $V_{CC}=2V$ to $5.5V$	$V_{CC}$ -0.1	-	-	V
			$I_O=-2mA$ ; $V_{CC}=2.3V$	2	-	-	V
			$I_O=-8mA$ ; $V_{CC}=3.0V$	2.48	-	-	V
			$I_O=-16mA$ ; $V_{CC}=4.5V$	3.8	-	-	V
LOW-level output voltage	$V_{OL}$	$V_I = V_{IH}$ or $V_{IL}$	$I_O=50\mu A$ ; $V_{CC}=2V$ to $5.5V$	-	-	0.1	V
			$I_O=2mA$ ; $V_{CC}=2.3V$	-	-	0.4	V
			$I_O=8mA$ ; $V_{CC}=3.0V$	-	-	0.44	V
			$I_O=16mA$ ; $V_{CC}=4.5V$	-	-	0.55	V
input leakage current	$I_I$	$V_I=V_{CC}$ or GND; $V_{CC}=0V$ to $5.5V$	-	-	$\pm 1$	$\mu A$	
OFF-state output current	$I_{OZ}$	$V_I=V_{IH}$ or $V_{IL}$ ; $V_O=$ GND to $5.5V$ ; $V_{CC}=5.5V$	-	-	$\pm 2.5$	$\mu A$	
power-off leakage current	$I_{OFF}$	$V_I$ or $V_O=$ GND to $5.5V$ ; $V_{CC}=0V$ to $5.5V$	-	-	5	$\mu A$	
supply current	$I_{CC}$	$V_I=V_{CC}$ or GND; $I_O=0A$ ; $V_{CC}=5.5V$	-	-	20	$\mu A$	

Note: All typical values are measured at  $T_{amb}=25^{\circ}\text{C}$



## 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	$V_{IH}$	$V_{CC}=2\text{V}$	1.5	-	-	V	
		$V_{CC}=2.3\text{V}$ to $2.7\text{V}$	$0.7 \times V_{CC}$	-	-	V	
		$V_{CC}=3.0\text{V}$ to $3.6\text{V}$	$0.7 \times V_{CC}$	-	-	V	
		$V_{CC}=4.5\text{V}$ to $5.5\text{V}$	$0.7 \times V_{CC}$	-	-	V	
LOW-level input voltage	$V_{IL}$	$V_{CC}=2\text{V}$	-	-	0.5	V	
		$V_{CC}=2.3\text{V}$ to $2.7\text{V}$	-	-	$0.3 \times V_{CC}$	V	
		$V_{CC}=3.0\text{V}$ to $3.6\text{V}$	-	-	$0.3 \times V_{CC}$	V	
		$V_{CC}=4.5\text{V}$ to $5.5\text{V}$	-	-	$0.3 \times V_{CC}$	V	
HIGH-level output voltage	$V_{OH}$	$V_I = V_{IH}$ or $V_{IL}$	$I_O=-50\mu\text{A}; V_{CC}=2\text{V}$ to $5.5\text{V}$	$V_{CC}-0.1$	-	-	V
			$I_O=-2\text{mA}; V_{CC}=2.3\text{V}$	2	-	-	V
			$I_O=-8\text{mA}; V_{CC}=3.0\text{V}$	2.48	-	-	V
			$I_O=-16\text{mA}; V_{CC}=4.5\text{V}$	3.8	-	-	V
LOW-level output voltage	$V_{OL}$	$V_I = V_{IH}$ or $V_{IL}$	$I_O=50\mu\text{A}; V_{CC}=2\text{V}$ to $5.5\text{V}$	-	-	0.1	V
			$I_O=2\text{mA}; V_{CC}=2.3\text{V}$	-	-	0.4	V
			$I_O=8\text{mA}; V_{CC}=3.0\text{V}$	-	-	0.44	V
			$I_O=16\text{mA}; V_{CC}=4.5\text{V}$	-	-	0.55	V
input leakage current	$I_I$	$V_I=V_{CC}$ or GND; $V_{CC}=0\text{V}$ to $5.5\text{V}$	-	-	$\pm 1$	$\mu\text{A}$	
OFF-state output current	$I_{OZ}$	$V_I=V_{IH}$ or $V_{IL}; V_O=$ GND to $5.5\text{V}; V_{CC}=5.5\text{V}$	-	-	$\pm 2.5$	$\mu\text{A}$	
power-off leakage current	$I_{OFF}$	$V_I$ or $V_O=$ GND to $5.5\text{V}; V_{CC}=0\text{V}$ to $5.5\text{V}$	-	-	5	$\mu\text{A}$	
supply current	$I_{CC}$	$V_I=V_{CC}$ or GND; $I_O=0\text{A}; V_{CC}=5.5\text{V}$	-	-	20	$\mu\text{A}$	

Note: All typical values are measured at  $T_{amb}=25^{\circ}\text{C}$



### 3.3.3、 AC Characteristics 1

( $T_{amb}=-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$ ,  $\text{GND}=0\text{V}$ ;  $t_r=t_f=3\text{ns}$ ;  $C_L=15\text{pF}$  or  $50\text{pF}$ ;  $R_L=500\Omega$ , unless otherwise specified.)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit	
An, Bn to Bn, An; propagation delay	$t_{PHL}/t_{PLH}$	see Figure 4,5	$V_{CC}=2.3\text{V}$ to $2.7\text{V}$ ; $C_L=15\text{pF}$	1	-	15	ns
			$V_{CC}=2.3\text{V}$ to $2.7\text{V}$ ; $C_L=50\text{pF}$	1	-	18	ns
			$V_{CC}=3\text{V}$ to $3.6\text{V}$ ; $C_L=15\text{pF}$	1	-	10	ns
			$V_{CC}=3\text{V}$ to $3.6\text{V}$ ; $C_L=50\text{pF}$	1	-	13.5	ns
			$V_{CC}=4.5\text{V}$ to $5.5\text{V}$ ; $C_L=15\text{pF}$	1	-	6.5	ns
			$V_{CC}=4.5\text{V}$ to $5.5\text{V}$ ; $C_L=50\text{pF}$	1	-	8.5	ns
$\overline{\text{OE}}$ to An, Bn; 3-state output enable time	$t_{PZH}/t_{PZL}$	see Figure 4,5	$V_{CC}=2.3\text{V}$ to $2.7\text{V}$ ; $C_L=15\text{pF}$	1	-	22	ns
			$V_{CC}=2.3\text{V}$ to $2.7\text{V}$ ; $C_L=50\text{pF}$	1	-	26	ns
			$V_{CC}=3\text{V}$ to $3.6\text{V}$ ; $C_L=15\text{pF}$	1	-	15.5	ns
			$V_{CC}=3\text{V}$ to $3.6\text{V}$ ; $C_L=50\text{pF}$	1	-	19	ns
			$V_{CC}=4.5\text{V}$ to $5.5\text{V}$ ; $C_L=15\text{pF}$	1	-	10	ns
			$V_{CC}=4.5\text{V}$ to $5.5\text{V}$ ; $C_L=50\text{pF}$	1	-	12	ns
$\overline{\text{OE}}$ to An, Bn; 3-state output disable time	$t_{PHZ}/t_{PLZ}$	see Figure 4,5	$V_{CC}=2.3\text{V}$ to $2.7\text{V}$ ; $C_L=15\text{pF}$	1	-	20	ns
			$V_{CC}=2.3\text{V}$ to $2.7\text{V}$ ; $C_L=50\text{pF}$	1	-	25	ns
			$V_{CC}=3\text{V}$ to $3.6\text{V}$ ; $C_L=15\text{pF}$	1	-	19.5	ns
			$V_{CC}=3\text{V}$ to $3.6\text{V}$ ; $C_L=50\text{pF}$	1	-	22	ns
			$V_{CC}=4.5\text{V}$ to $5.5\text{V}$ ; $C_L=15\text{pF}$	1	-	14.2	ns
			$V_{CC}=4.5\text{V}$ to $5.5\text{V}$ ; $C_L=50\text{pF}$	1	-	16	ns

Note:

[1] Unless otherwise stated, all typical values are measured at  $T_{amb}=25^{\circ}\text{C}$ .

[2] Typical values are measured at  $V_{CC}=3.3\text{V}$ .

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

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

$f_i$ =input frequency in MHz;

$f_o$ =output frequency in MHz;

$C_L$ =output load capacitance in pF;

$V_{CC}$ =supply voltage in V;

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



## 3.3.4、AC Characteristics 2

( $T_{amb}=-40^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$ ,  $GND=0\text{V}$ ;  $t_r=t_f=3\text{ns}$ ;  $C_L=15\text{pF}$  or  $50\text{pF}$ ;  $R_L=500\Omega$ , unless otherwise specified.)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit	
An, Bn to Bn, An; propagation delay	$t_{PHL}/t_{PLH}$	see Figure 4,5	$V_{CC}=2.3\text{V}$ to $2.7\text{V}$ ; $C_L=15\text{pF}$	1	-	17	ns
			$V_{CC}=2.3\text{V}$ to $2.7\text{V}$ ; $C_L=50\text{pF}$	1	-	21	ns
			$V_{CC}=3\text{V}$ to $3.6\text{V}$ ; $C_L=15\text{pF}$	1	-	11	ns
			$V_{CC}=3\text{V}$ to $3.6\text{V}$ ; $C_L=50\text{pF}$	1	-	14.5	ns
			$V_{CC}=4.5\text{V}$ to $5.5\text{V}$ ; $C_L=15\text{pF}$	1	-	7	ns
			$V_{CC}=4.5\text{V}$ to $5.5\text{V}$ ; $C_L=50\text{pF}$	1	-	9	ns
$\overline{\text{OE}}$ to An, Bn; 3-state output enable time	$t_{pZH}/t_{pZL}$	see Figure 4,5	$V_{CC}=2.3\text{V}$ to $2.7\text{V}$ ; $C_L=15\text{pF}$	1	-	24	ns
			$V_{CC}=2.3\text{V}$ to $2.7\text{V}$ ; $C_L=50\text{pF}$	1	-	28	ns
			$V_{CC}=3\text{V}$ to $3.6\text{V}$ ; $C_L=15\text{pF}$	1	-	16.5	ns
			$V_{CC}=3\text{V}$ to $3.6\text{V}$ ; $C_L=50\text{pF}$	1	-	20	ns
			$V_{CC}=4.5\text{V}$ to $5.5\text{V}$ ; $C_L=15\text{pF}$	1	-	10.5	ns
			$V_{CC}=4.5\text{V}$ to $5.5\text{V}$ ; $C_L=50\text{pF}$	1	-	12.5	ns
$\overline{\text{OE}}$ to An, Bn; 3-state output disable time	$t_{pHZ}/t_{pLZ}$	see Figure 4,5	$V_{CC}=2.3\text{V}$ to $2.7\text{V}$ ; $C_L=15\text{pF}$	1	-	22	ns
			$V_{CC}=2.3\text{V}$ to $2.7\text{V}$ ; $C_L=50\text{pF}$	1	-	27	ns
			$V_{CC}=3\text{V}$ to $3.6\text{V}$ ; $C_L=15\text{pF}$	1	-	20.5	ns
			$V_{CC}=3\text{V}$ to $3.6\text{V}$ ; $C_L=50\text{pF}$	1	-	23	ns
			$V_{CC}=4.5\text{V}$ to $5.5\text{V}$ ; $C_L=15\text{pF}$	1	-	14.7	ns
			$V_{CC}=4.5\text{V}$ to $5.5\text{V}$ ; $C_L=50\text{pF}$	1	-	16.5	ns

Note:

[1] Unless otherwise stated, all typical values are measured at  $T_{amb}=25^{\circ}\text{C}$ .

[2] Typical values are measured at  $V_{CC}=3.3\text{V}$ .



### 4、 Testing Circuit

#### 4.1、 AC Testing Circuit

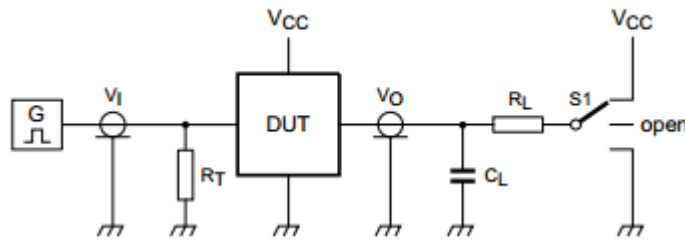


Figure 3. Load circuit for switching times

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.

#### 4.2、 AC Testing Waveforms

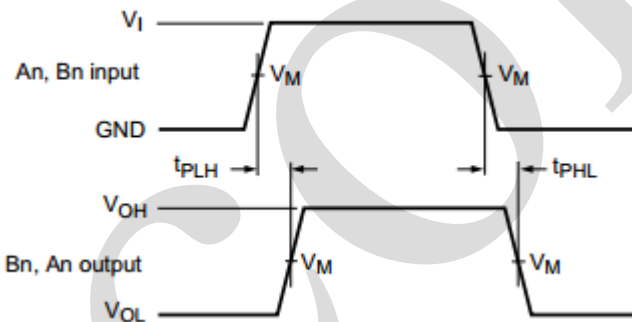


Figure 4. The input (An, Bn) to output (Bn, An) propagation delays

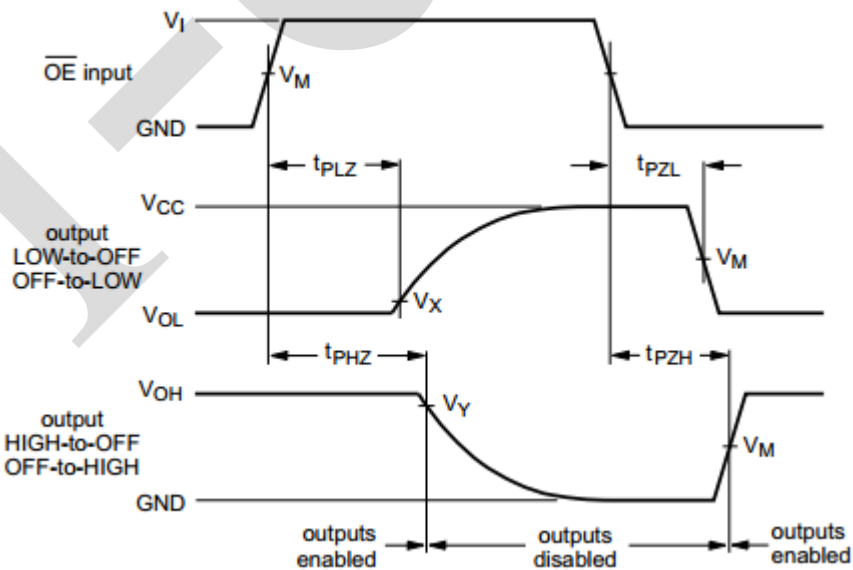


Figure 5. Enable and disable times



### 4.3、Measurement Points

Supply voltage	Input	Output		
$V_{CC}$	$V_M$	$V_M$	$V_X$	$V_Y$
2.7V to 5.5V	$0.5 \times V_{CC}$	$0.5 \times V_{CC}$	$V_{OL}+0.3V$	$V_{OH}-0.3V$

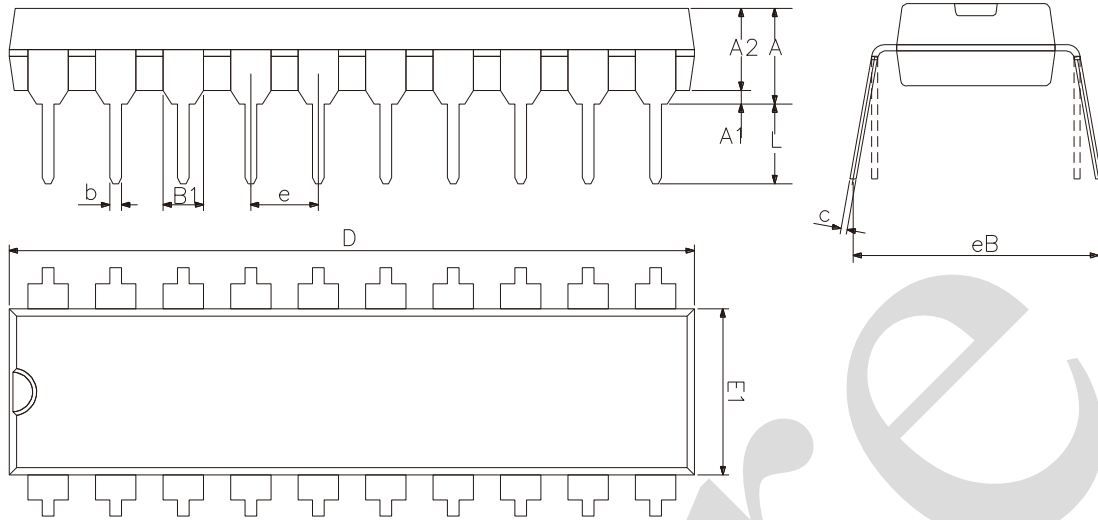
### 4.4、Test Data

Supply voltage	Input		Load		S1 position		
$V_{CC}$	$V_I$	$t_r, t_f$	$C_L$	$R_L$	$t_{PHL}, t_{PLH}$	$t_{PZH}, t_{PHZ}$	$t_{PZL}, t_{PLZ}$
2.7V to 5.5V	GND to $V_{CC}$	3ns	15pF, 50pF	1k $\Omega$	open	GND	$V_{CC}$



## 5、Package Information

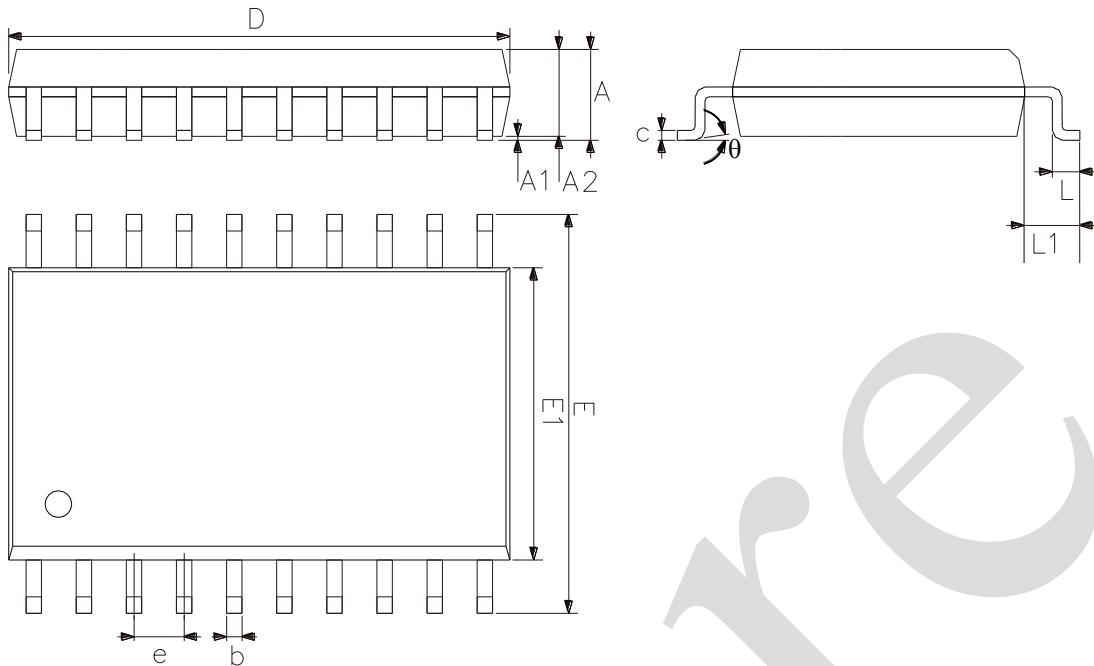
### 5.1、DIP20



2023/12/A	Dimensions In Millimeters		
	Symbol	Min	Max
	A	3.60	5.33
	A1	0.51	—
	A2	3.20	3.60
	b	0.36	0.53
	B1	1.52	
	c	0.204	0.36
	D	25.70	26.54
	E1	6.20	6.75
	e	2.54	
	eB	7.62	9.30
	L	3.00	3.60



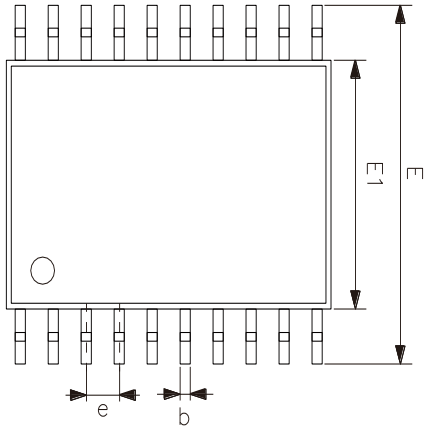
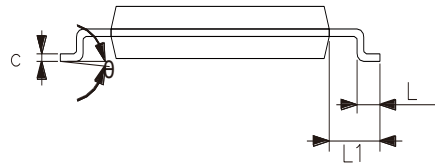
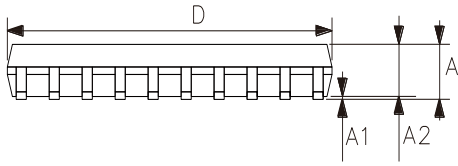
## 5.2、SOP20



2023/12/A	Dimensions In Millimeters	
Symbol	Min.	Max.
A	2.47	2.65
A1	0.05	0.30
A2	2.20	2.44
b	0.35	0.50
c	0.15	0.30
D	12.54	12.94
E	10.00	10.60
E1	7.30	7.70
e	1.27	
L	0.40	1.05
L1	1.30	1.50
$\theta$	0°	8°



## 5.3、TSSOP20



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	6.40	6.60
E1	4.30	4.50
E	6.20	6.60
e	0.65	
L	0.45	0.75
L1	1.00	
$\theta$	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

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