# AiP74LVC1G99
# Ultra-Configurable Multiple Function Gate; 3-State

# Product Specification

**Specification Revision History：**

| Version | Date | Description |
|---|---|---|
| 2024-11-A0 | 2024-11 | New |
| 2025-05-A1 | 2025-05 | Modify the parameters |
| | | |
| | | |

# Contents

## 1、General Description

The AiP74LVC1G99 provides a low voltage, ultra-configurable, multiple function gate with 3-state output.

The input can be driven from either 3.3V or 5V devices. This feature allows the use of this device in a mixed 3.3V and 5V environment.

**Features:**

- Wide supply voltage range from 1.65V to 5.5V
- Inputs accept voltages to 5.5V
- ±24mA output drive at 3.0V
- High-impedance when $V_{CC}$=0V
- Temperature range:-40℃ to +125℃
- Packaging information: TSSOP8/VSSOP8/XSON8

**Ordering Information:**

**Reel packing specifications:**

| Part number | Packaging form | Marking code | Reel quantity | Boxed reel quantity | Notes |
|---|---|---|---|---|---|
| AiP74LVC1G99TA8.TR | TSSOP8 | AiPHM 1G99 | 3000 PCS/reel | 3000 PCS/box | Dimensions of plastic enclosure: 3.0mm×3.0mm Pin spacing: 0.65mm |
| AiP74LVC1G99YA8.TR | VSSOP8 | AiP HMXX | 3000 PCS/reel | 3000 PCS/box | Dimensions of plastic enclosure: 2.0mm×2.3mm Pin spacing: 0.50mm |
| AiP74LVC1G99EB8.TR | XSON8 | HM XX | 5000 PCS/reel | 25000 PCS/box | Dimensions of plastic enclosure: 1.35mm×1.0mm Pin spacing: 0.35mm |

Note 1: “XX” refers to variable content, meaning year and package batch serial number.

Note 2: 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

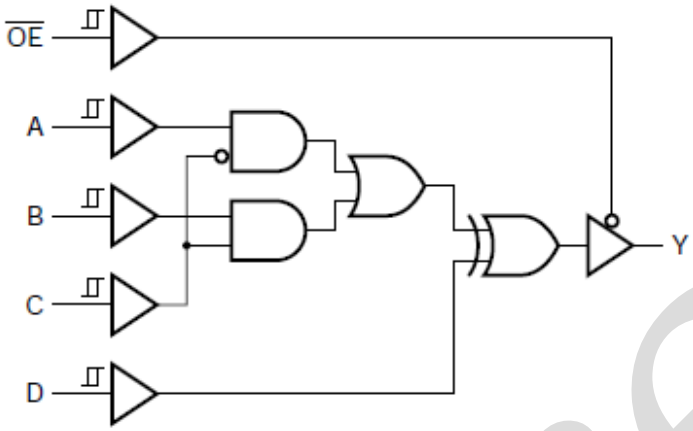



Figure 1. Logic symbol

### 2.2、Pin Configurations

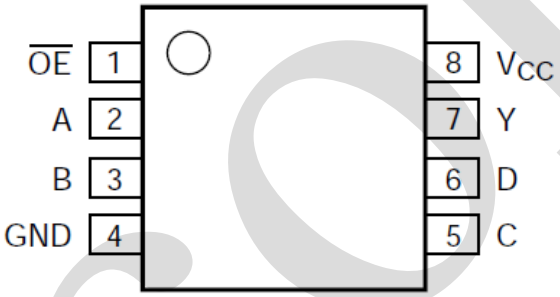



Figure 2. Pin configurations

### 2.3、Pin Description

| Pin No. | Pin Name | Description |
|---|---|---|
| 1 | $\overline{OE}$ | output enable input $\overline{OE}$ (active LOW) |
| 2 | A | data input |
| 3 | B | data input |
| 4 | GND | ground (0 V) |
| 5 | C | data input |
| 6 | D | data input |
| 7 | Y | data output |
| 8 | $V_{CC}$ | supply voltage |

### 2.4、Function Table

| Inputs | | | | | Output |
|---|---|---|---|---|---|
| $\overline{OE}$ | D | C | B | A | Y |
| L | L | L | L | L | L |
| L | L | L | L | H | H |
| L | L | L | H | L | L |
| L | L | L | H | H | H |
| L | L | H | L | L | L |
| L | L | H | L | H | L |
| L | L | H | H | L | H |
| L | L | H | H | H | H |
| L | H | L | L | L | H |
| L | H | L | L | H | L |
| L | H | L | H | L | H |
| L | H | L | H | H | L |
| L | H | H | L | L | H |
| L | H | H | L | H | H |
| L | H | H | H | L | L |
| L | H | H | H | H | L |
| H | X | X | 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

($T_{amb}$=25℃, all voltage referenced to GND, unless otherwise specified)

| Parameter | Symbol | Conditions | Min. | Max. | Unit |
|---|---|---|---|---|---|
| supply voltage | $V_{CC}$ | - | -0.5 | +6.5 | V |
| input voltage | $V_I$ | - | -0.5 | +6.5 | V |
| output voltage | $V_O$ | Active mode | -0.5 | $V_{CC}$+0.5 | V |
| | | Power-down mode; $V_{CC}$=0V | -0.5 | +6.5 | V |
| supply current | $I_{CC}$ | - | - | 100 | mA |
| ground current | $I_{GND}$ | - | -100 | - | mA |
| input clamping current | $I_{IK}$ | $V_I$<0V | -50 | - | mA |
| output current | $I_O$ | $V_O$=0V to $V_{CC}$ | - | ±50 | mA |
| output clamping current | $I_{OK}$ | $V_O$>$V_{CC}$ or $V_O$<0V | - | ±50 | mA |
| storage temperature | $T_{stg}$ | - | -65 | +150 | ℃ |
| soldering temperature | $T_L$ | 10s | 260 | | ℃ |

### 3.2、Recommended Operating Conditions

| Parameter | Symbol | Conditions | Min. | Typ. | Max. | Unit |
|---|---|---|---|---|---|---|
| supply voltage | $V_{CC}$ | - | 1.65 | - | 5.5 | V |
| input voltage | $V_I$ | - | 0 | - | 5.5 | V |
| output voltage | $V_O$ | Active mode | 0 | - | $V_{CC}$ | V |
| | | Power-down mode; $V_{CC}$=0V | 0 | - | 5.5 | V |
| ambient temperature | $T_{amb}$ | - | -40 | - | +125 | ℃ |

### 3.3、Electrical Characteristics

#### 3.3.1、DC Characteristics 1

($T_{amb}$=-40℃ to +85℃, voltages are referenced to GND (ground=0V), unless otherwise specified.)

| Parameter | Symbol | Vcc | Conditions | Min. | Typ. | Max. | Unit |
|---|---|---|---|---|---|---|---|
| positive-going threshold voltage | $V_{T+}$ | 1.8V | - | 0.70 | 1.10 | 1.50 | V |
| | | 2.3V | - | 1.00 | 1.40 | 1.80 | V |
| | | 3.0V | - | 1.30 | 1.76 | 2.20 | V |
| | | 4.5V | - | 1.90 | 2.47 | 3.10 | V |
| | | 5.5V | - | 2.20 | 2.91 | 3.60 | V |
| negative-going threshold voltage | $V_{T-}$ | 1.8V | - | 0.25 | 0.61 | 0.75 | V |
| | | 2.3V | - | 0.40 | 0.80 | 0.90 | V |
| | | 3.0V | - | 0.60 | 1.04 | 1.50 | V |
| | | 4.5V | - | 1.00 | 1.55 | 2.00 | V |
| | | 5.5V | - | 1.20 | 1.86 | 2.30 | V |
| hysteresis voltage | $V_H$ | 1.8V | - | 0.15 | 0.49 | 1.00 | V |
| | | 2.3V | - | 0.25 | 0.60 | 1.10 | V |
| | | 3.0V | - | 0.40 | 0.73 | 1.50 | V |
| | | 4.5V | - | 0.60 | 0.92 | 2.00 | V |
| | | 5.5V | - | 0.70 | 1.02 | 2.30 | V |
| HIGH-level output voltage | $V_{OH}$ | 1.65V to 5.5V | $I_O$=-100uA | $V_{CC}$ - 0.1 | - | - | V |
| | | 1.65V | $I_O$=-4mA | 1.2 | 1.54 | - | V |
| | | 2.3V | $I_O$=-8mA | 1.9 | 2.15 | - | V |
| | | 2.7V | $I_O$=-12mA | 2.2 | 2.50 | - | V |
| | | 3.0V | $I_O$=-24mA | 2.3 | 2.62 | - | V |
| | | 4.5V | $I_O$=-32mA | 3.8 | 4.11 | - | V |
| LOW-level output voltage | $V_{OL}$ | 1.65V to 5.5V | $I_O$=100uA | - | - | 0.10 | V |
| | | 1.65V | $I_O$=4mA | - | 0.07 | 0.45 | V |
| | | 2.3V | $I_O$=8mA | - | 0.12 | 0.30 | V |
| | | 2.7V | $I_O$=12mA | - | 0.17 | 0.40 | V |
| | | 3.0V | $I_O$=24mA | - | 0.33 | 0.55 | V |
| | | 4.5V | $I_O$=32mA | - | 0.39 | 0.55 | V |
| input leakage current | $I_I$ | 0V to 5.5V | 5.5V or GND | - | - | ±1 | uA |
| OFF-state output current | $I_{OZ}$ | 3.6V | $V_I$ or $V_O$=5.5V | - | - | ±2 | uA |
| power-off leakage current | $I_{OFF}$ | 0V | $V_I$ or $V_O$=5.5V | - | - | ±2 | uA |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| supply current | $I_{CC}$ | 1.65V to 5.5V | $V_I$=5.5V or GND; $I_O$=0A | - | - | 4 | uA |
| additional supply current | $\Delta I_{CC}$ | 2.3V to 5.5V | $V_I$=$V_{CC}$-0.6V; $I_O$=0A | - | - | 500 | uA |

Note: Typical values are measured at $T_{amb}$=25℃.

### 3.3.2、DC Characteristics 2

($T_{amb}$=-40℃ to +125℃, voltages are referenced to GND (ground = 0V), unless otherwise specified.)

| Parameter | Symbol | Vcc | Conditions | Min. | Typ. | Max. | Unit |
|---|---|---|---|---|---|---|---|
| positive-going threshold voltage | $V_{T+}$ | 1.8V | - | 0.70 | - | 1.70 | V |
| | | 2.3V | - | 1.00 | - | 2.00 | V |
| | | 3.0V | - | 1.30 | - | 2.40 | V |
| | | 4.5V | - | 1.90 | - | 3.30 | V |
| | | 5.5V | - | 2.20 | - | 3.80 | V |
| negative-going threshold voltage | $V_{T-}$ | 1.8V | - | 0.25 | - | 1.10 | V |
| | | 2.3V | - | 0.40 | - | 1.35 | V |
| | | 3.0V | - | 0.60 | - | 1.70 | V |
| | | 4.5V | - | 1.00 | - | 2.20 | V |
| | | 5.5V | - | 1.20 | - | 2.50 | V |
| hysteresis voltage | $V_H$ | 1.8V | - | 0.15 | - | 1.20 | V |
| | | 2.3V | - | 0.25 | - | 1.30 | V |
| | | 3.0V | - | 0.40 | - | 1.40 | V |
| | | 4.5V | - | 0.60 | - | 1.70 | V |
| | | 5.5V | - | 0.70 | - | 1.90 | V |
| HIGH-level output voltage | $V_{OH}$ | 1.65V to 5.5V | $I_O$=-100uA | $V_{CC}$ - 0.1 | - | - | V |
| | | 1.65V | $I_O$=-4mA | 0.95 | - | - | V |
| | | 2.3V | $I_O$=-8mA | 1.7 | - | - | V |
| | | 2.7V | $I_O$=-12mA | 1.9 | - | - | V |
| | | 3.0V | $I_O$=-24mA | 2.0 | - | - | V |
| | | 4.5V | $I_O$=-32mA | 3.4 | - | - | V |
| LOW-level output voltage | $V_{OL}$ | 1.65V to 5.5V | $I_O$=100uA | - | - | 0.10 | V |
| | | 1.65V | $I_O$=4mA | - | - | 0.70 | V |
| | | 2.3V | $I_O$=8mA | - | - | 0.45 | V |
| | | 2.7V | $I_O$=12mA | - | - | 0.60 | V |
| | | 3.0V | $I_O$=24mA | - | - | 0.80 | V |
| | | 4.5V | $I_O$=32mA | - | - | 0.80 | V |
| input leakage current | $I_I$ | 0V to 5.5V | 5.5V or GND | - | - | ±1 | uA |
| OFF-state output current | $I_{OZ}$ | 3.6V | $V_I$ or $V_O$=5.5V | - | - | ±2 | uA |
| power-off leakage current | $I_{OFF}$ | 0V | $V_I$ or $V_O$=5.5V | - | - | ±2 | uA |
| supply current | $I_{CC}$ | 1.65V to 5.5V | $V_I$=5.5V or GND; $I_O$=0A | - | - | 4 | uA |
| additional supply current | $\Delta I_{CC}$ | 2.3V to 5.5V | $V_I$=$V_{CC}$-0.6V; $I_O$=0A | - | - | 500 | uA |

### 3.3.3、AC Characteristics 1

($T_{amb}$=-40℃ to +85℃, voltages are referenced to GND (ground = 0V), unless otherwise specified.)

| Parameter | Symbol | Vcc | Conditions | Min. | Typ. | Max. | Unit |
|---|---|---|---|---|---|---|---|
| A to Y propagation delay | $t_{PLH}$, $t_{PHL}$ | 1.65V to 1.95V | see Figure 4 | 2.8 | 7.5 | 30.8 | ns |
| | | 2.3V to 2.7V | | 2.0 | 5.0 | 11.7 | ns |
| | | 2.7V | | 2.0 | 5.4 | 9.0 | ns |
| | | 3.0V to 3.6V | | 1.8 | 4.5 | 8.4 | ns |
| | | 4.5V to 5.5V | | 1.8 | 3.8 | 5.5 | ns |
| B to Y propagation delay | | 1.65V to 1.95V | | 2.8 | 7.5 | 28.9 | ns |
| | | 2.3V to 2.7V | | 2.0 | 5.0 | 11.3 | ns |
| | | 2.7V | | 2.0 | 5.4 | 9.0 | ns |
| | | 3.0V to 3.6V | | 1.8 | 4.5 | 8.2 | ns |
| | | 4.5V to 5.5V | | 1.8 | 3.8 | 5.4 | ns |
| C to Y propagation delay | | 1.65V to 1.95V | | 3.2 | 7.8 | 29.8 | ns |
| | | 2.3V to 2.7V | | 2.3 | 5.2 | 12.3 | ns |
| | | 2.7V | | 2.3 | 5.3 | 9.6 | ns |
| | | 3.0V to 3.6V | | 2.3 | 4.6 | 8.6 | ns |
| | | 4.5V to 5.5V | | 1.8 | 3.8 | 5.7 | ns |
| D to Y propagation delay | | 1.65V to 1.95V | | 2.8 | 7.0 | 25.7 | ns |
| | | 2.3V to 2.7V | | 2.0 | 4.6 | 10.7 | ns |
| | | 2.7V | | 2.0 | 4.8 | 9.2 | ns |
| | | 3.0V to 3.6V | | 1.8 | 4.1 | 7.6 | ns |
| | | 4.5V to 5.5V | | 1.6 | 3.4 | 5.2 | ns |
| $\overline{OE}$ to Y enable time | $t_{PZH}$, $t_{PZL}$ | 1.65V to 1.95V | see Figure 5 | 2.0 | 5.7 | 25.2 | ns |
| | | 2.3V to 2.7V | | 1.4 | 3.8 | 11.3 | ns |
| | | 2.7V | | 1.4 | 4.2 | 8.6 | ns |
| | | 3.0V to 3.6V | | 1.4 | 3.5 | 7.0 | ns |
| | | 4.5V to 5.5V | | 1.4 | 2.7 | 4.7 | ns |
| $\overline{OE}$ to Y disable time | $t_{PLZ}$, $t_{PHZ}$ | 1.65V to 1.95V | | 3.0 | 5.7 | 15.0 | ns |
| | | 2.3V to 2.7V | | 2.0 | 3.6 | 5.8 | ns |
| | | 2.7V | | 2.0 | 4.5 | 6.6 | ns |
| | | 3.0V to 3.6V | | 2.1 | 4.5 | 5.9 | ns |
| | | 4.5V to 5.5V | | 1.0 | 3.4 | 4.5 | ns |

Note: Typical values are measured at $T_{amb}$=25℃ and $V_{CC}$=1.8V, 2.5V, 2.7V, 3.3V and 5.0V respectively.

### 3.3.4、AC Characteristics 2

($T_{amb}$=-40℃ to +125℃, voltages are referenced to GND (ground = 0V), unless otherwise specified.)

| Parameter | Symbol | Vcc | Conditions | Min. | Typ. | Max. | Unit |
|---|---|---|---|---|---|---|---|
| A to Y propagation delay | $t_{PLH}$, $t_{PHL}$ | 1.65V to 1.95V | see Figure 4 | - | - | 38.5 | ns |
| | | 2.3V to 2.7V | | - | - | 14.6 | ns |
| | | 2.7V | | - | - | 11.3 | ns |
| | | 3.0V to 3.6V | | - | - | 10.5 | ns |
| | | 4.5V to 5.5V | | - | - | 6.9 | ns |
| B to Y propagation delay | | 1.65V to 1.95V | | - | - | 36.2 | ns |
| | | 2.3V to 2.7V | | - | - | 14.2 | ns |
| | | 2.7V | | - | - | 11.3 | ns |
| | | 3.0V to 3.6V | | - | - | 10.3 | ns |
| | | 4.5V to 5.5V | | - | - | 6.8 | ns |
| C to Y propagation delay | | 1.65V to 1.95V | | - | - | 37.3 | ns |
| | | 2.3V to 2.7V | | - | - | 15.4 | ns |
| | | 2.7V | | - | - | 12.0 | ns |
| | | 3.0V to 3.6V | | - | - | 10.8 | ns |
| | | 4.5V to 5.5V | | - | - | 7.2 | ns |
| D to Y propagation delay | | 1.65V to 1.95V | | - | - | 32.2 | ns |
| | | 2.3V to 2.7V | | - | - | 13.4 | ns |
| | | 2.7V | | - | - | 11.5 | ns |
| | | 3.0V to 3.6V | | - | - | 9.5 | ns |
| | | 4.5V to 5.5V | | - | - | 6.5 | ns |
| $\overline{OE}$ to Y enable time | $t_{PZH}$, $t_{PZL}$ | 1.65V to 1.95V | see Figure 5 | - | - | 32.0 | ns |
| | | 2.3V to 2.7V | | - | - | 14.0 | ns |
| | | 2.7V | | - | - | 11.0 | ns |
| | | 3.0V to 3.6V | | - | - | 9.0 | ns |
| | | 4.5V to 5.5V | | - | - | 6.0 | ns |
| $\overline{OE}$ to Y disable time | $t_{PLZ}$, $t_{PHZ}$ | 1.65V to 1.95V | | - | - | 19.0 | ns |
| | | 2.3V to 2.7V | | - | - | 7.3 | ns |
| | | 2.7V | | - | - | 8.2 | ns |
| | | 3.0V to 3.6V | | - | - | 7.4 | ns |
| | | 4.5V to 5.5V | | - | - | 5.6 | ns |

## 4、Testing Circuit

### 4.1、AC Testing Circuit

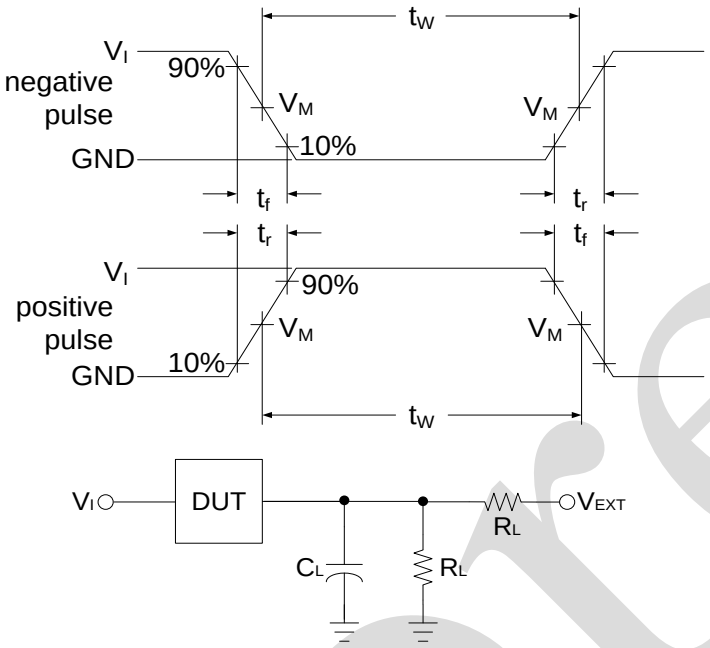



Figure 3. Load circuit

$C_L$ includes probe and jig capacitance.

$R_L$=Load resistance.

### 4.2、Test Data

| Supply voltage | Input | | Load | | $V_{EXT}$ | | |
|---|---|---|---|---|---|---|---|
| $V_{CC}$ | $V_I$ | $t_r = t_f$ | $C_L$ | $R_L$ | $t_{PLH}/t_{PHL}$ | $t_{PLZ}/t_{PZL}$ | $t_{PHZ}/t_{PZH}$ |
| 1.65V to 1.95V | $V_{CC}$ | ≤ 3ns | 30pF | 1kΩ | Open | 2×$V_{CC}$ | GND |
| 2.3V to 2.7V | $V_{CC}$ | ≤ 3ns | 30pF | 500Ω | Open | 2×$V_{CC}$ | GND |
| 2.7V | $V_{CC}$ | ≤ 3ns | 50pF | 500Ω | Open | 2×$V_{CC}$ | GND |
| 3.0V to 3.6V | $V_{CC}$ | ≤ 3ns | 50pF | 500Ω | Open | 2×$V_{CC}$ | GND |
| 4.5V to 5.5V | $V_{CC}$ | ≤ 3ns | 50pF | 500Ω | Open | 2×$V_{CC}$ | GND |

### 4.3、AC Testing Waveforms

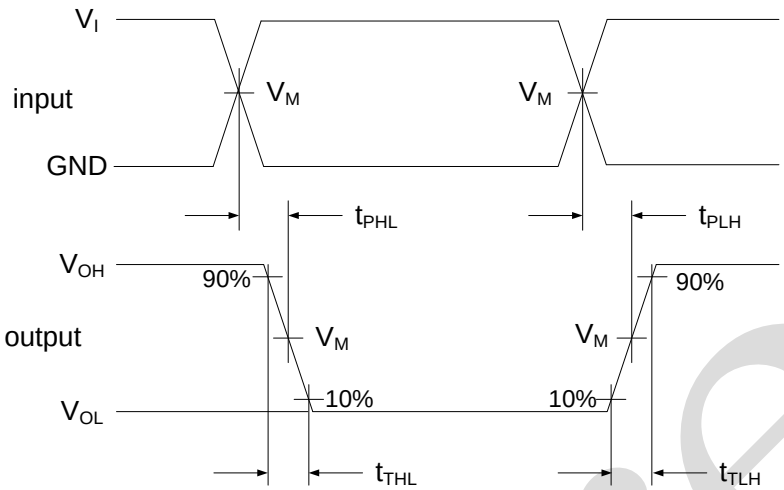



Figure 4. The data input (A、B、C、D) to output (Y) propagation delays

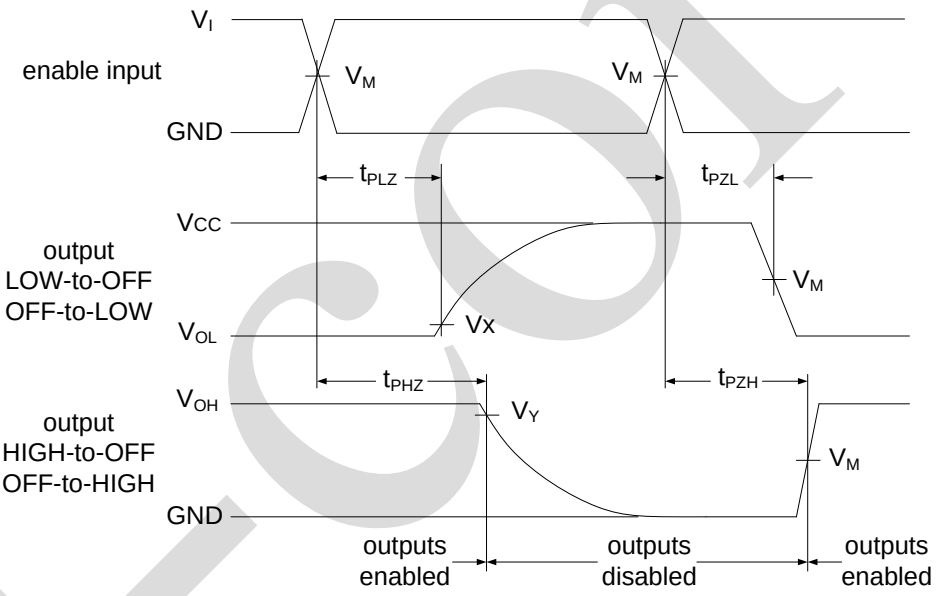


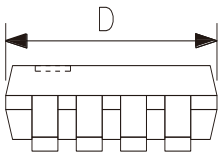

Figure 5. 3-state enable and disable times

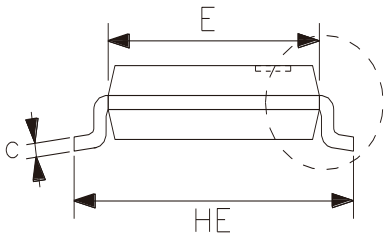
### 4.4、Measurement Points

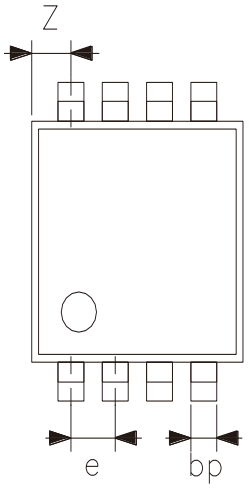
| Supply voltage | Input | Output | | |
|---|---|---|---|---|
| $V_{CC}$ | $V_M$ | $V_M$ | $V_X$ | $V_Y$ |
| 1.65V to 1.95V | $0.5\times V_{CC}$ | $0.5\times V_{CC}$ | $V_{OL}$+0.15V | $V_{OH}$-0.15V |
| 2.3V to 2.7V | $0.5\times V_{CC}$ | $0.5\times V_{CC}$ | $V_{OL}$+0.15V | $V_{OH}$-0.15V |
| 2.7V | $0.5\times V_{CC}$ | $0.5\times V_{CC}$ | $V_{OL}$+0.3V | $V_{OH}$-0.3V |
| 3.0V to 3.6V | $0.5\times V_{CC}$ | $0.5\times V_{CC}$ | $V_{OL}$+0.3V | $V_{OH}$-0.3V |
| 4.5V to 5.5V | $0.5\times V_{CC}$ | $0.5\times V_{CC}$ | $V_{OL}$+0.3V | $V_{OH}$-0.3V |

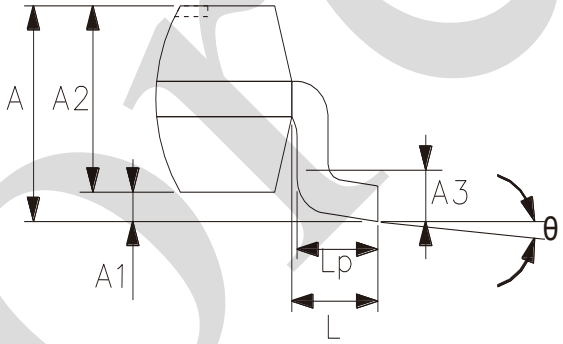
## 5、Package Information

### 5.1、TSSOP8



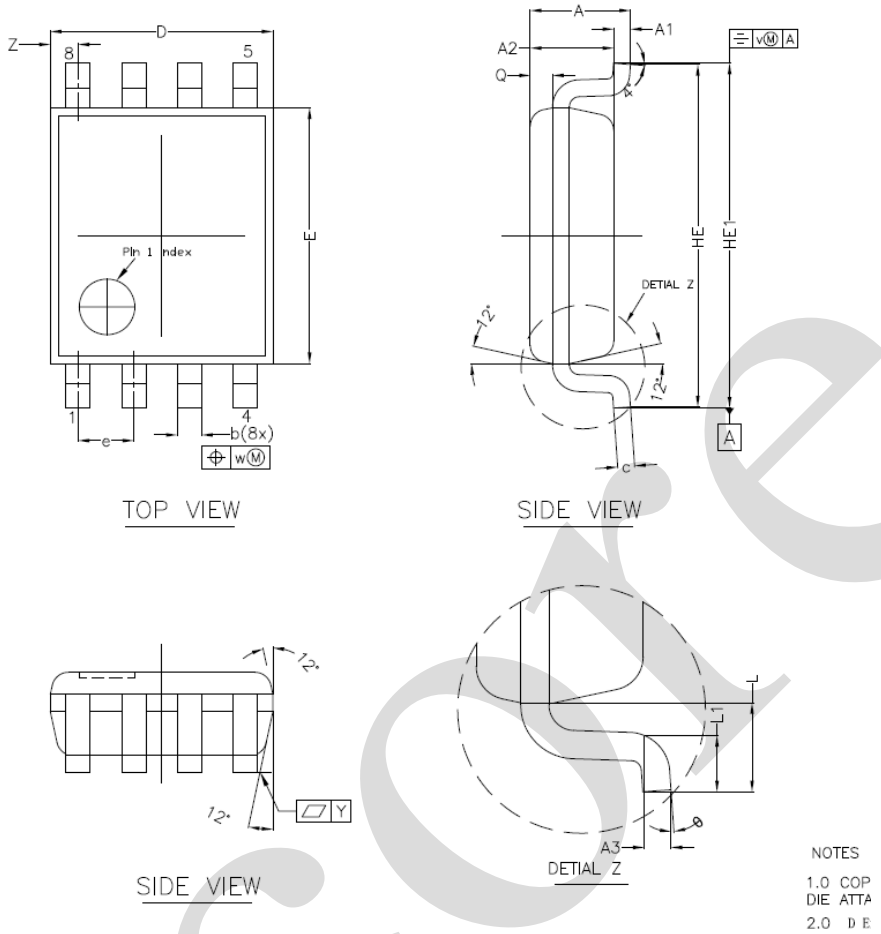



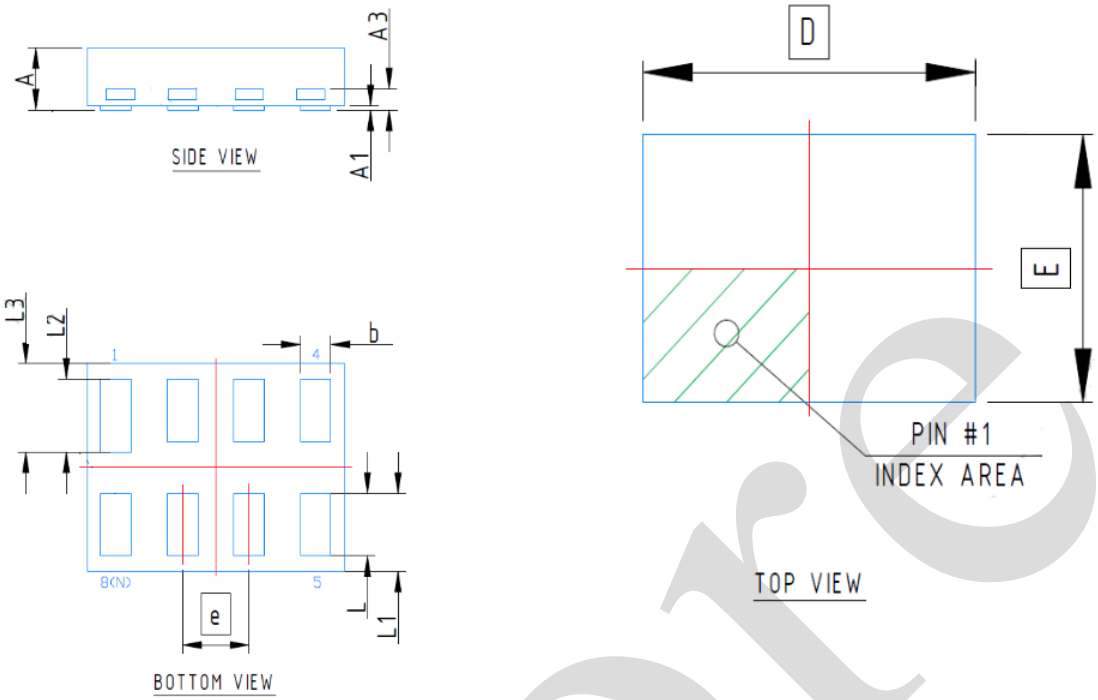

| 2023/12/A | Dimensions In Millimeters | |
|---|---|---|
| **Symbol** | **Min** | **Max** |
| A | — | 1.10 |
| A1 | 0 | 0.15 |
| A2 | 0.75 | 0.95 |
| A3 | 0.25 | |
| bp | 0.22 | 0.38 |
| c | 0.08 | 0.18 |
| D | 2.90 | 3.10 |
| E | 2.90 | 3.10 |
| HE | 3.90 | 4.10 |
| L | 0.50 | |
| Lp | 0.33 | 0.47 |
| e | 0.65 | |
| Z | 0.35 | 0.70 |
| θ | 0° | 8° |

## 5.2、VSSOP8




| 2023/12/A | Dimensions In Millimeters | |
|---|---|---|
| **Symbol** | **Min** | **Max** |
| A | — | 1.00 |
| A1 | 0.00 | 0.15 |
| A2 | 0.60 | 0.85 |
| A3 | 0.12 | |
| Q | 0.19 | 0.21 |
| b | 0.17 | 0.27 |
| c | 0.08 | 0.23 |
| D | 1.90 | 2.10 |
| E | 2.20 | 2.40 |
| HE | 3.00 | 3.20 |
| HE1 | 3.00 | 3.40 |
| e | 0.50 | |
| L | 0.40 | |
| L1 | 0.15 | 0.40 |
| Y | 0.10 | |
| Z | 0.10 | 0.40 |
| θ | 0 ° | 8 ° |

**5.3、XSON8**




| 2023/12/A | Dimensions In Millimeters | |
|---|---|---|
| **Symbol** | **Min** | **Max** |
| A | 0.28 | 0.32 |
| A1 | 0.00 | 0.05 |
| A3 | 0.10 | |
| b | 0.11 | 0.21 |
| D | 1.35 | |
| E | 1.00 | |
| e | 0.35 | |
| L | 0.25 | 0.35 |
| L1 | 0.275 | 0.475 |
| L2 | 0.30 | 0.40 |
| L3 | 0.325 | 0.525 |

## 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.<br>×：Indicates that the content of hazardous substances or elements exceeding the SJ/T11363-2006 Standard limit requirements. | | | | | | | | | |

### 6.2、Notes

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