



# AiP74LVC1G04 Single Inverter

## Product Specification

### Specification Revision History:

| Version    | Date    | Description   |
|------------|---------|---|
| 2019-07-A1 | 2019-07 | New   |
| 2021-09-A2 | 2021-09 | Modify ambient temperature to $-40^{\circ}\text{C}\sim+105^{\circ}\text{C}$ and add electrical characteristics of $-40^{\circ}\text{C}\sim+105^{\circ}\text{C}$ |
| 2021-10-A3 | 2021-10 | Modify ordering information   |
| 2021-12-A4 | 2021-12 | Modify ordering information   |
| 2022-03-A5 | 2022-03 | Modify ordering information note 1  |



## 1、 General Description

The AiP74LVC1G04 provides one inverting buffer.

Input can be driven from either 3.3V or 5V devices. These features allow the use of these devices in a mixed 3.3V and 5V environment.

Schmitt-trigger action at all inputs makes the circuit tolerant of slower input rise and fall time.

This device is fully specified for partial power-down applications using  $I_{OFF}$ . The  $I_{OFF}$  circuitry disables the output, preventing the damaging backflow current through the device when it is powered down.

### Features:

- Wide supply voltage range from 1.65V to 5.5V
- 5V tolerant inputs for interfacing with 5V logic
- $\pm 24$ mA output drive ( $V_{CC}=3.0V$ )
- CMOS low power consumption
- Latch-up performance exceeds 250mA
- Direct interface with TTL levels
- Input accepts voltages up to 5V
- Specified from  $-40^{\circ}C$  to  $+105^{\circ}C$
- Packaging information: SOT-23-5/SOT-353

### Ordering Information:

#### Reel packing specifications:

| Part number          | Packaging form | Marking code | Reel quantity    | Boxed reel quantity | Notes   |
|----------------------|----------------|--------------|------------------|---------------------|---|
| AiP74LVC1G04GB235.TR | SOT-23-5       | ABXX         | 3000<br>PCS/reel | 30000<br>PCS/box    | Dimensions of plastic enclosure:<br>2.9mm×1.6mm<br>Pin spacing:0.95mm |
| AiP74LVC1G04GC353.TR | SOT-353        | ABXX         | 3000<br>PCS/reel | 30000<br>PCS/box    | Dimensions of plastic enclosure:<br>2.1mm×1.3mm<br>Pin spacing:0.65mm |

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

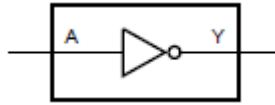


Figure 1. Logic symbol



Figure 2. IEC logic symbol

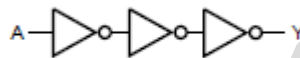
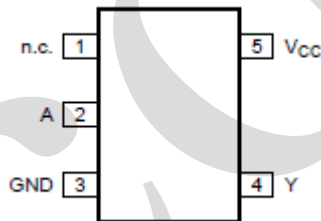


Figure 3. Logic diagram

### 2.2、Pin Configurations



### 2.3、Pin Description

| Pin No. | Pin Name        | Description    |
|---------|-----------------|----------------|
| 1       | n.c.            | not connected  |
| 2       | A               | data input     |
| 3       | GND             | ground (0V)    |
| 4       | Y               | data output    |
| 5       | V <sub>CC</sub> | supply voltage |

### 2.4、Function Table

| Input | Output |
|-------|--------|
| A     | Y      |
| L     | H      |
| H     | L      |

Note: H=HIGH voltage level; L=LOW voltage level.



## 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 $V_O < 0V$ | -    | $\pm 50$     | mA   |
| output voltage          | $V_O$     | Active mode                  | -0.5 | $V_{CC}+0.5$ | V    |
|                         |           | Power-down mode; $V_{CC}=0V$ | -0.5 | +6.5         | V    |
| output current          | $I_O$     | $V_O=0V$ to $V_{CC}$         | -    | $\pm 50$     | mA   |
| supply current          | $I_{CC}$  | -                            | -    | 100          | mA   |
| ground current          | $I_{GND}$ | -                            | -100 | -            | mA   |
| storage temperature     | $T_{stg}$ | -                            | -65  | +150         | °C   |
| total power dissipation | $P_{tot}$ | -                            | -    | 250          | mW   |
| Soldering temperature   | $T_L$     | 10s                          |      | 250          | °C   |

### 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  | -    | +105     | °C   |
| input transition rise and fall rate | $\Delta t/\Delta V$ | $V_{CC}=1.65V$ to $2.7V$     | -    | -    | 20       | ns/V |
|                                     |                     | $V_{CC}=2.7V$ to $5.5V$      | -    | -    | 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  | $V_{IH}$        | $V_{CC}=1.65\text{V}$ to $1.95\text{V}$  | $0.65 \times V_{CC}$  | -              | -                    | V             |   |
|                           |                 | $V_{CC}=2.3\text{V}$ to $2.7\text{V}$  | 1.7   | -              | -                    | V             |   |
|                           |                 | $V_{CC}=2.7\text{V}$ to $3.6\text{V}$  | 2.0   | -              | -                    | V             |   |
|                           |                 | $V_{CC}=4.5\text{V}$ to $5.5\text{V}$  | $0.7 \times V_{CC}$   | -              | -                    | V             |   |
| LOW-level input voltage   | $V_{IL}$        | $V_{CC}=1.65\text{V}$ to $1.95\text{V}$  | -   | -              | $0.35 \times V_{CC}$ | V             |   |
|                           |                 | $V_{CC}=2.3\text{V}$ to $2.7\text{V}$  | -   | -              | 0.7                  | V             |   |
|                           |                 | $V_{CC}=2.7\text{V}$ to $3.6\text{V}$  | -   | -              | 0.8                  | 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 $V_{IL}$   | $I_O = -100\mu\text{A}$ ;<br>$V_{CC}=1.65\text{V}$ to $5.5\text{V}$ | $V_{CC} - 0.1$ | -                    | -             | V |
|                           |                 |  | $I_O = -4\text{mA}$ ; $V_{CC}=1.65\text{V}$                         | 1.2            | -                    | -             | V |
|                           |                 |  | $I_O = -8\text{mA}$ ; $V_{CC}=2.3\text{V}$                          | 1.9            | -                    | -             | V |
|                           |                 |  | $I_O = -12\text{mA}$ ; $V_{CC}=2.7\text{V}$                         | 2.2            | -                    | -             | V |
|                           |                 |  | $I_O = -24\text{mA}$ ; $V_{CC}=3.0\text{V}$                         | 2.3            | -                    | -             | 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 $V_{IL}$   | $I_O = 100\mu\text{A}$ ;<br>$V_{CC}=1.65\text{V}$ to $5.5\text{V}$  | -              | -                    | 0.1           | V |
|                           |                 |  | $I_O = 4\text{mA}$ ; $V_{CC}=1.65\text{V}$                          | -              | -                    | 0.45          | V |
|                           |                 |  | $I_O = 8\text{mA}$ ; $V_{CC}=2.3\text{V}$                           | -              | -                    | 0.3           | 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;<br>$V_{CC} = 0\text{V}$ to $5.5\text{V}$                                   | -   | $\pm 0.1$      | $\pm 1$              | $\mu\text{A}$ |   |
| power-off leakage current | $I_{OFF}$       | $V_I$ or $V_O = 5.5\text{V}$ ; $V_{CC} = 0\text{V}$  | -   | $\pm 0.1$      | $\pm 2$              | $\mu\text{A}$ |   |
| supply current            | $I_{CC}$        | $V_I = 5.5\text{V}$ or GND; $I_O = 0\text{A}$ ;<br>$V_{CC} = 1.65\text{V}$ to $5.5\text{V}$            | -   | 0.1            | 4                    | $\mu\text{A}$ |   |
| additional supply current | $\Delta I_{CC}$ | per pin; $V_I = V_{CC} - 0.6\text{V}$ ; $I_O = 0\text{A}$ ;<br>$V_{CC} = 2.3\text{V}$ to $5.5\text{V}$ | -   | 5              | 500                  | $\mu\text{A}$ |   |
| input capacitance         | $C_I$           | $V_{CC} = 3.3\text{V}$ ; $V_I = \text{GND}$ to $V_{CC}$  | -   | 5              | -                    | pF            |   |

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



## 3.3.2、DC Characteristics 2

( $T_{amb} = -40^{\circ}\text{C}$  to  $+105^{\circ}\text{C}$ , voltages are referenced to GND (ground=0V), unless otherwise specified.)

| Parameter                 | Symbol          | Conditions  | Min.  | Typ.           | Max.                 | Unit          |   |
|---------------------------|-----------------|---|---|----------------|----------------------|---------------|---|
| HIGH-level input voltage  | $V_{IH}$        | $V_{CC}=1.65\text{V}$ to $1.95\text{V}$   | $0.65 \times V_{CC}$  | -              | -                    | V             |   |
|                           |                 | $V_{CC}=2.3\text{V}$ to $2.7\text{V}$   | 1.7   | -              | -                    | V             |   |
|                           |                 | $V_{CC}=2.7\text{V}$ to $3.6\text{V}$   | 2.0   | -              | -                    | V             |   |
|                           |                 | $V_{CC}=4.5\text{V}$ to $5.5\text{V}$   | $0.7 \times V_{CC}$   | -              | -                    | V             |   |
| LOW-level input voltage   | $V_{IL}$        | $V_{CC}=1.65\text{V}$ to $1.95\text{V}$   | -   | -              | $0.35 \times V_{CC}$ | V             |   |
|                           |                 | $V_{CC}=2.3\text{V}$ to $2.7\text{V}$   | -   | -              | 0.7                  | V             |   |
|                           |                 | $V_{CC}=2.7\text{V}$ to $3.6\text{V}$   | -   | -              | 0.8                  | 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 $V_{IL}$  | $I_O = -100\mu\text{A}; V_{CC}=1.65\text{V}$ to $5.5\text{V}$ | $V_{CC} - 0.1$ | -                    | -             | V |
|                           |                 |   | $I_O = -4\text{mA}; V_{CC}=1.65\text{V}$                      | 0.95           | -                    | -             | V |
|                           |                 |   | $I_O = -8\text{mA}; V_{CC}=2.3\text{V}$                       | 1.7            | -                    | -             | V |
|                           |                 |   | $I_O = -12\text{mA}; V_{CC}=2.7\text{V}$                      | 1.9            | -                    | -             | 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 $5.5\text{V}$  | -              | -                    | 0.1           | V |
|                           |                 |   | $I_O = 4\text{mA}; V_{CC}=1.65\text{V}$                       | -              | -                    | 0.70          | V |
|                           |                 |   | $I_O = 8\text{mA}; V_{CC}=2.3\text{V}$                        | -              | -                    | 0.45          | V |
|                           |                 |   | $I_O = 12\text{mA}; V_{CC}=2.7\text{V}$                       | -              | -                    | 0.60          | V |
|                           |                 |   | $I_O = 24\text{mA}; V_{CC}=3.0\text{V}$                       | -              | -                    | 0.80          | V |
|                           |                 |   | $I_O = 32\text{mA}; V_{CC}=4.5\text{V}$                       | -              | -                    | 0.80          | V |
| input leakage current     | $I_I$           | $V_I = 5.5\text{V}$ or GND;<br>$V_{CC} = 0\text{V}$ to $5.5\text{V}$                          | -   | -              | $\pm 1$              | $\mu\text{A}$ |   |
| power-off leakage current | $I_{OFF}$       | $V_I$ or $V_O = 5.5\text{V}; V_{CC} = 0\text{V}$  | -   | -              | $\pm 2$              | $\mu\text{A}$ |   |
| supply current            | $I_{CC}$        | $V_I = 5.5\text{V}$ or GND; $I_O = 0\text{A}; V_{CC} = 1.65\text{V}$ to $5.5\text{V}$         | -   | -              | 4                    | $\mu\text{A}$ |   |
| additional supply current | $\Delta I_{CC}$ | per pin; $V_I = V_{CC} - 0.6\text{V}; I_O = 0\text{A}; V_{CC} = 2.3\text{V}$ to $5.5\text{V}$ | -   | -              | 500                  | $\mu\text{A}$ |   |

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



### 3.3.3、 AC 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 |    |
|-------------------------------|----------|---|---|------|------|------|----|
| A to Y propagation delay      | $t_{pd}$ | see Figure 5  | $V_{CC}=1.65\text{V}$ to $1.95\text{V}$ | 1.0  | 3.0  | 7.5  | ns |
|                               |          |   | $V_{CC}=2.3\text{V}$ to $2.7\text{V}$   | 0.5  | 2.0  | 5.0  | ns |
|                               |          |   | $V_{CC}=2.7\text{V}$                    | 0.5  | 2.3  | 5.2  | ns |
|                               |          |   | $V_{CC}=3.0\text{V}$ to $3.6\text{V}$   | 0.5  | 2.0  | 4.2  | ns |
|                               |          |   | $V_{CC}=4.5\text{V}$ to $5.5\text{V}$   | 0.5  | 1.6  | 3.7  | ns |
| Power dissipation capacitance | $C_{PD}$ | $V_{CC}=3.3\text{V}$ ; $V_I=\text{GND}$ to $V_{CC}$ | -                                       | 14   | -    | pF   |    |

Note:

[1] Typical values are measured at  $T_{amb}=25^{\circ}\text{C}$  and  $V_{CC}=1.8\text{V}$ ,  $2.5\text{V}$ ,  $2.7\text{V}$ ,  $3.3\text{V}$  and  $5.0\text{V}$  respectively.

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

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

$$P_D=(C_{PD}\times V_{CC}^2\times f_i\times N)+\sum(C_L\times V_{CC}^2\times f_o)$$
 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  $+105^{\circ}\text{C}$ , voltages are referenced to GND (ground=0V), unless otherwise specified.)

| Parameter                | Symbol   | Conditions   | Min.                                    | Typ. | Max. | Unit |    |
|--------------------------|----------|--------------|---|------|------|------|----|
| A to Y propagation delay | $t_{pd}$ | see Figure 5 | $V_{CC}=1.65\text{V}$ to $1.95\text{V}$ | 1.0  | -    | 9.5  | ns |
|                          |          |              | $V_{CC}=2.3\text{V}$ to $2.7\text{V}$   | 0.5  | -    | 6.5  | ns |
|                          |          |              | $V_{CC}=2.7\text{V}$                    | 0.5  | -    | 7.0  | ns |
|                          |          |              | $V_{CC}=3.0\text{V}$ to $3.6\text{V}$   | 0.5  | -    | 5.5  | ns |
|                          |          |              | $V_{CC}=4.5\text{V}$ to $5.5\text{V}$   | 0.5  | -    | 5.0  | ns |

Note:

[1] Typical values are measured at  $T_{amb}=25^{\circ}\text{C}$  and  $V_{CC}=1.8\text{V}$ ,  $2.5\text{V}$ ,  $2.7\text{V}$ ,  $3.3\text{V}$  and  $5.0\text{V}$  respectively.

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



## 4、Testing Circuit

### 4.1、AC Testing Circuit

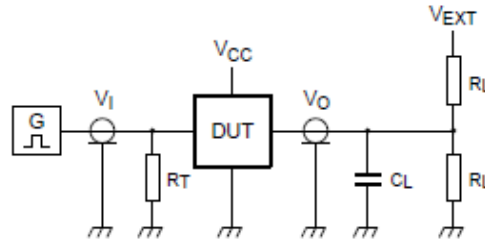


Figure 4. Test circuit for measuring switching times

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

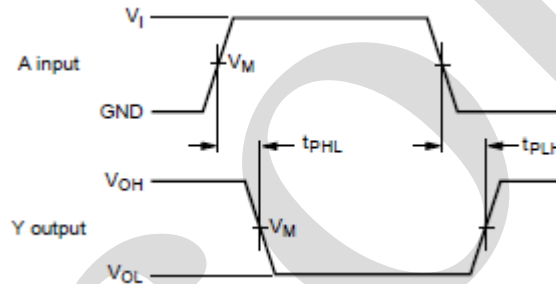


Figure 5. The input A to output Y propagation delays

### 4.3、Measurement Points

| Supply voltage | Input               | Output              |
|----------------|---------------------|---------------------|
| $V_{CC}$       | $V_M$               | $V_M$               |
| 1.65V to 1.95V | $0.5 \times V_{CC}$ | $0.5 \times V_{CC}$ |
| 2.3V to 2.7V   | $0.5 \times V_{CC}$ | $0.5 \times V_{CC}$ |
| 2.7V           | 1.5V                | 1.5V                |
| 3.0V to 3.6V   | 1.5V                | 1.5V                |
| 4.5V to 5.5V   | $0.5 \times V_{CC}$ | $0.5 \times V_{CC}$ |

### 4.4、Test Data

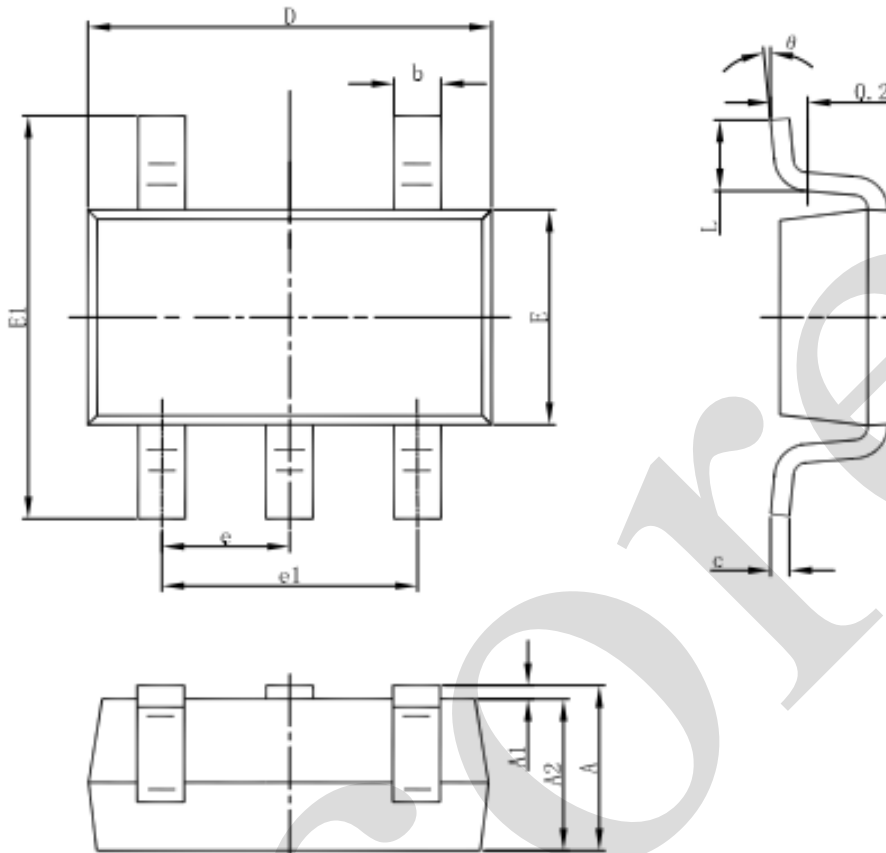
| Supply voltage | Input    |              | Load  |              | $V_{EXT}$          |
|----------------|----------|--------------|-------|--------------|--------------------|
|                | $V_I$    | $t_r = t_f$  | $C_L$ | $R_L$        | $t_{PLH}, t_{PHL}$ |
| 1.65V to 1.95V | $V_{CC}$ | $\leq 2.0ns$ | 30pF  | 1k $\Omega$  | open               |
| 2.3V to 2.7V   | $V_{CC}$ | $\leq 2.0ns$ | 30pF  | 500 $\Omega$ | open               |
| 2.7V           | 2.7V     | $\leq 2.5ns$ | 50pF  | 500 $\Omega$ | open               |
| 3.0V to 3.6V   | 2.7V     | $\leq 2.5ns$ | 50pF  | 500 $\Omega$ | open               |
| 4.5V to 5.5V   | $V_{CC}$ | $\leq 2.5ns$ | 50pF  | 500 $\Omega$ | open               |





## 5、Package Information

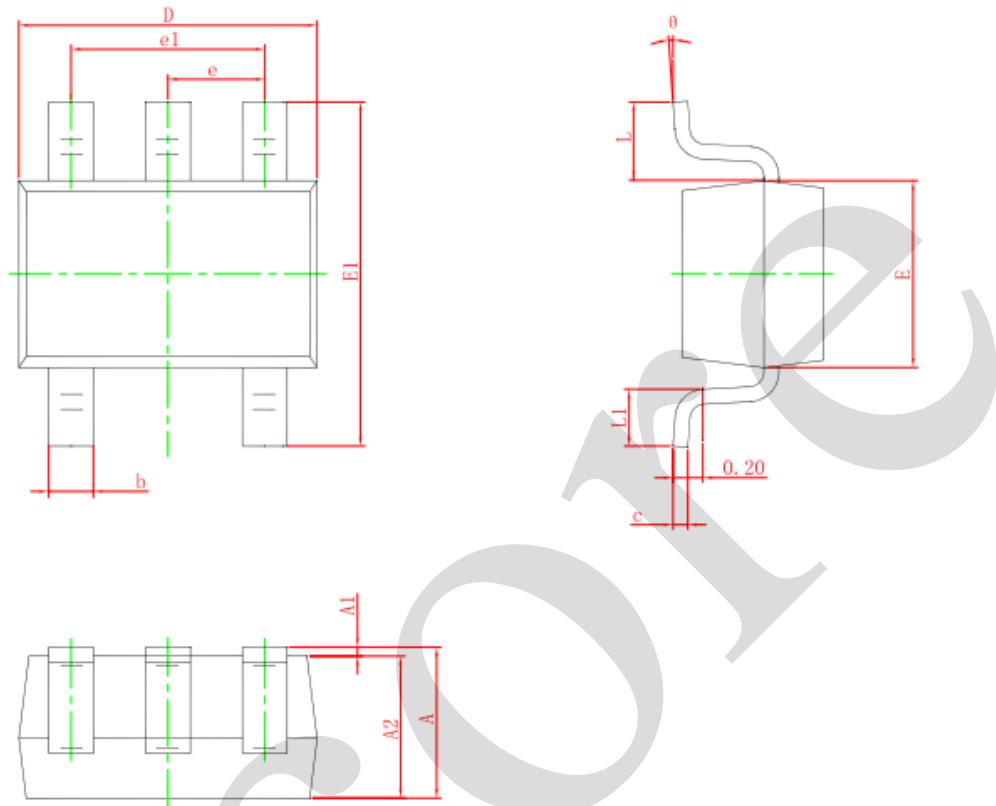
### 5.1、SOT-23-5



| Symbol | Dimensions In Millimeters |       | Dimensions In Inches |       |
|--------|---------------------------|-------|----------------------|-------|
|        | Min                       | Max   | Min                  | Max   |
| A      | 1.050                     | 1.250 | 0.041                | 0.049 |
| A1     | 0.000                     | 0.100 | 0.000                | 0.004 |
| A2     | 1.050                     | 1.150 | 0.041                | 0.045 |
| b      | 0.300                     | 0.500 | 0.012                | 0.020 |
| c      | 0.100                     | 0.200 | 0.004                | 0.008 |
| D      | 2.820                     | 3.020 | 0.111                | 0.119 |
| E      | 1.500                     | 1.700 | 0.059                | 0.067 |
| E1     | 2.650                     | 2.950 | 0.104                | 0.116 |
| e      | 0.950(BSC)                |       | 0.037(BSC)           |       |
| e1     | 1.800                     | 2.000 | 0.071                | 0.079 |
| L      | 0.300                     | 0.600 | 0.012                | 0.024 |
| θ      | 0°                        | 8°    | 0°                   | 8°    |



## 5.2、SOT-353



| Symbol | Dimensions In Millimeters |       | Dimensions In Inches |       |
|--------|---------------------------|-------|----------------------|-------|
|        | Min.                      | Max.  | Min.                 | Max.  |
| A      | 0.900                     | 1.100 | 0.035                | 0.043 |
| A1     | 0.000                     | 0.100 | 0.000                | 0.004 |
| A2     | 0.900                     | 1.000 | 0.035                | 0.039 |
| b      | 0.150                     | 0.350 | 0.006                | 0.014 |
| c      | 0.080                     | 0.150 | 0.003                | 0.006 |
| D      | 2.000                     | 2.200 | 0.079                | 0.087 |
| E      | 1.150                     | 1.350 | 0.045                | 0.053 |
| E1     | 2.150                     | 2.450 | 0.085                | 0.096 |
| e      | 0.650 TYP.                |       | 0.026 TYP.           |       |
| e1     | 1.200                     | 1.400 | 0.047                | 0.055 |
| L      | 0.525 REF.                |       | 0.021 REF.           |       |
| L1     | 0.260                     | 0.460 | 0.010                | 0.018 |
| θ      | 0°                        | 8°    | 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.<br>×: Indicates that the content of hazardous substances or elements exceeding the SJ/T11363-2006 Standard limit requirements. |                               |                               |                               |                          |                                |                   |                       |                           |                      |

### 6.2、 Notion

Recommended carefully reading this information before the use of this product;

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