



AiP74LVC1G17 Single Buffer Schmitt Trigger

Product Specification

Specification Revision History:

| Version | Date | Description |
|------------|---------|--|
| 2017-07-A1 | 2017-07 | New |
| 2021-05-A2 | 2021-05 | Modify Transfer Characteristics Parameter |
| 2021-09-A3 | 2021-09 | Modify ambient temperature to -40°C~+105°C and add electrical characteristics of -40°C~+105°C; 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 AiP74LVC1G17 provides a buffer function with Schmitt trigger input. It is capable of transforming slowly changing input signals into sharply defined outputs.

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.

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
- $\pm 24\text{mA}$ output drive ($V_{CC}=3.0\text{V}$)
- CMOS low power consumption
- Latch-up performance exceeds 250mA
- Direct interface with TTL levels
- Unlimited rise and fall times
- Input accepts voltages up to 5V
- Specified from -40°C to $+105^\circ\text{C}$
- Packaging information: SOT-23-5/SOT-353

Ordering Information:

Reel packing specifications:

| Part number | Packaging form | Marking code | Reel quantity | Boxed reel quantity | Notes |
|----------------------|----------------|--------------|------------------|---------------------|--|
| AiP74LVC1G17GB235.TR | SOT-23-5 | AFXX | 3000 PCS/reel | 30000 PCS/box | Dimensions of plastic enclosure: 2.9mm \times 1.6mm Pin spacing: 0.95mm |
| AiP74LVC1G17GC353.TR | SOT-353 | AFXX | 3000 PCS/reel | 30000 PCS/box | Dimensions of plastic enclosure: 2.1mm \times 1.3mm 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

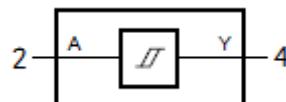


Figure 1. Logic symbol

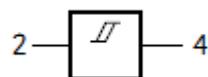


Figure 2. IEC logic symbol

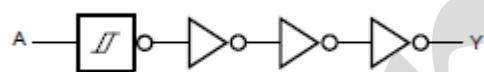
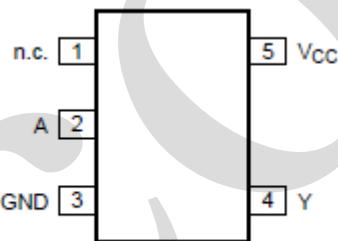


Figure 3. Logic diagram

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 _{CC} | supply voltage |

2.4、Function Table

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

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 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 |
| input clamping current | I _{IK} | V _I <0V | -50 | - | mA |
| output clamping current | I _{OK} | V _O >V _{CC} or V _O <0V | - | ±50 | mA |
| output current | I _O | V _O =0V to V _{CC} | - | ±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 |



3.3、Electrical Characteristics

3.3.1、DC 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 | |
|---------------------------|-----------------|---|--|----------------|---------|------|---|
| HIGH-level output voltage | V_{OH} | $V_I = V_{T+}$ or V_{T-} | $I_O = -100\mu A$; $V_{CC} = 1.65V$ to $5.5V$ | $V_{CC} - 0.1$ | - | - | V |
| | | | $I_O = -4mA$; $V_{CC} = 1.65V$ | 1.2 | - | - | V |
| | | | $I_O = -8mA$; $V_{CC} = 2.3V$ | 1.9 | - | - | V |
| | | | $I_O = -12mA$; $V_{CC} = 2.7V$ | 2.2 | - | - | V |
| | | | $I_O = -24mA$; $V_{CC} = 3.0V$ | 2.3 | - | - | V |
| | | | $I_O = -32mA$; $V_{CC} = 4.5V$ | 3.8 | - | - | V |
| LOW-level output voltage | V_{OL} | $V_I = V_{T+}$ or V_{T-} | $I_O = 100\mu A$; $V_{CC} = 1.65V$ to $5.5V$ | - | - | 0.10 | V |
| | | | $I_O = 4mA$; $V_{CC} = 1.65V$ | - | - | 0.45 | V |
| | | | $I_O = 8mA$; $V_{CC} = 2.3V$ | - | - | 0.30 | V |
| | | | $I_O = 12mA$; $V_{CC} = 2.7V$ | - | - | 0.40 | V |
| | | | $I_O = 24mA$; $V_{CC} = 3.0V$ | - | - | 0.55 | V |
| | | | $I_O = 32mA$; $V_{CC} = 4.5V$ | - | - | 0.55 | V |
| input leakage current | I_I | $V_I = 5.5V$ or GND; $V_{CC} = 0V$ to $5.5V$ | - | ± 0.1 | ± 1 | uA | |
| power-off leakage current | I_{OFF} | V_I or $V_O = 5.5V$; $V_{CC} = 0V$ | - | ± 0.1 | ± 2 | uA | |
| supply current | I_{CC} | $V_I = 5.5V$ or GND; $I_O = 0A$; $V_{CC} = 1.65V$ to $5.5V$ | - | 0.1 | 4 | uA | |
| additional supply current | ΔI_{CC} | per pin; $V_I = V_{CC} - 0.6V$; $I_O = 0A$; $V_{CC} = 2.3V$ to $5.5V$ | - | 5 | 500 | uA | |
| input capacitance | C_I | - | - | 5.0 | - | pF | |

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

3.3.2、DC Characteristics 2

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

| Parameter | Symbol | Conditions | Min. | Typ. | Max. | Unit | |
|---------------------------|----------|----------------------------|--|----------------|------|------|---|
| HIGH-level output voltage | V_{OH} | $V_I = V_{T+}$ or V_{T-} | $I_O = -100\mu A$; $V_{CC} = 1.65V$ to $5.5V$ | $V_{CC} - 0.1$ | - | - | V |
| | | | $I_O = -4mA$; $V_{CC} = 1.65V$ | 0.95 | - | - | V |
| | | | $I_O = -8mA$; $V_{CC} = 2.3V$ | 1.7 | - | - | V |
| | | | $I_O = -12mA$; $V_{CC} = 2.7V$ | 1.9 | - | - | V |
| | | | $I_O = -24mA$; $V_{CC} = 3.0V$ | 2.0 | - | - | V |
| | | | $I_O = -32mA$; $V_{CC} = 4.5V$ | 3.4 | - | - | V |
| LOW-level output voltage | V_{OL} | $V_I = V_{T+}$ or V_{T-} | $I_O = 100\mu A$; $V_{CC} = 1.65V$ to $5.5V$ | - | - | 0.10 | V |
| | | | $I_O = 4mA$; $V_{CC} = 1.65V$ | - | - | 0.70 | V |
| | | | $I_O = 8mA$; $V_{CC} = 2.3V$ | - | - | 0.45 | V |
| | | | $I_O = 12mA$; $V_{CC} = 2.7V$ | - | - | 0.60 | V |
| | | | $I_O = 24mA$; $V_{CC} = 3.0V$ | - | - | 0.80 | V |
| | | | $I_O = 32mA$; $V_{CC} = 4.5V$ | - | - | 0.80 | V |



| | | | | | | |
|---------------------------|------------------|--|---|---|-----|----|
| input leakage current | I _I | V _I =5.5V or GND; V _{CC} =0V to 5.5V | - | - | ±1 | uA |
| power-off leakage current | I _{OFF} | V _I or V _O =5.5V; V _{CC} =0V | - | - | ±2 | uA |
| supply current | I _{CC} | V _I =5.5V or GND; I _O =0A; V _{CC} =1.65V to 5.5V | - | - | 4 | uA |
| additional supply current | ΔI _{CC} | per pin; V _I =V _{CC} -0.6V; I _O =0A; V _{CC} =2.3V to 5.5V | - | - | 500 | uA |

Note: All typical values are measured at maximum V_{CC} and T_{amb}=25°C.

3.3.3、AC Characteristics 1

(T_{amb}=-40°C to +85°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} | V _{CC} =1.65V to 1.95V | 1.0 | 4.1 | 11.0 | ns |
| | | V _{CC} =2.3V to 2.7V | 0.7 | 2.8 | 6.5 | ns |
| | | V _{CC} =2.7V | 0.7 | 3.2 | 6.5 | ns |
| | | V _{CC} =3.0V to 3.6V | 0.7 | 3.0 | 5.5 | ns |
| | | V _{CC} =4.5V to 5.5V | 0.7 | 2.2 | 5.0 | ns |
| Power dissipation capacitance | C _{PD} | V _{CC} =3.3V; V _I =GND to V _{CC} | - | 16.6 | - | pF |

Note:

[1] Typical values are measured at T_{amb}=25°C and V_{CC}=1.8V, 2.5V, 2.7V, 3.3V and 5.0V 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°C to +105°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} | V _{CC} =1.65V to 1.95V | 1.0 | - | 14.0 | ns |
| | | V _{CC} =2.3V to 2.7V | 0.7 | - | 8.5 | ns |
| | | V _{CC} =2.7V | 0.7 | - | 8.5 | ns |
| | | V _{CC} =3.0V to 3.6V | 0.7 | - | 7.0 | ns |
| | | V _{CC} =4.5V to 5.5V | 0.7 | - | 6.5 | ns |

Note:

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

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



3.3.5、Transfer 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 | |
|----------------------------------|----------|-------------------------------------|----------------------|------|------|------|---|
| positive-going threshold voltage | V_{T+} | see Figure 6 and Figure 7 | $V_{CC}=1.8\text{V}$ | 0.82 | 1.02 | 1.2 | V |
| | | | $V_{CC}=2.3\text{V}$ | 1.03 | 1.25 | 1.45 | V |
| | | | $V_{CC}=3.0\text{V}$ | 1.29 | 1.5 | 1.71 | V |
| | | | $V_{CC}=4.5\text{V}$ | 1.84 | 2.15 | 2.41 | V |
| | | | $V_{CC}=5.5\text{V}$ | 2.19 | 2.6 | 2.91 | V |
| negative-going threshold voltage | V_{T-} | see Figure 6 and Figure 7 | $V_{CC}=1.8\text{V}$ | 0.45 | 0.6 | 0.75 | V |
| | | | $V_{CC}=2.3\text{V}$ | 0.64 | 0.8 | 0.96 | V |
| | | | $V_{CC}=3.0\text{V}$ | 0.86 | 1.1 | 1.34 | V |
| | | | $V_{CC}=4.5\text{V}$ | 1.35 | 1.75 | 2.09 | V |
| | | | $V_{CC}=5.5\text{V}$ | 1.61 | 2.15 | 2.59 | V |
| hysteresis voltage | V_H | see Figure 6, Figure 7 and Figure 8 | $V_{CC}=1.8\text{V}$ | 0.24 | 0.4 | 0.54 | V |
| | | | $V_{CC}=2.3\text{V}$ | 0.26 | 0.4 | 0.57 | V |
| | | | $V_{CC}=3.0\text{V}$ | 0.27 | 0.42 | 0.64 | V |
| | | | $V_{CC}=4.5\text{V}$ | 0.28 | 0.45 | 0.65 | V |
| | | | $V_{CC}=5.5\text{V}$ | 0.29 | 0.47 | 0.75 | V |

3.3.6、Transfer 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 | |
|----------------------------------|----------|-------------------------------------|----------------------|------|------|------|---|
| positive-going threshold voltage | V_{T+} | see Figure 6 and Figure 7 | $V_{CC}=1.8\text{V}$ | 0.79 | - | 1.2 | V |
| | | | $V_{CC}=2.3\text{V}$ | 1.00 | - | 1.45 | V |
| | | | $V_{CC}=3.0\text{V}$ | 1.26 | - | 1.71 | V |
| | | | $V_{CC}=4.5\text{V}$ | 1.81 | - | 2.41 | V |
| | | | $V_{CC}=5.5\text{V}$ | 2.16 | - | 2.91 | V |
| negative-going threshold voltage | V_{T-} | see Figure 6 and Figure 7 | $V_{CC}=1.8\text{V}$ | 0.45 | - | 0.78 | V |
| | | | $V_{CC}=2.3\text{V}$ | 0.64 | - | 0.99 | V |
| | | | $V_{CC}=3.0\text{V}$ | 0.86 | - | 1.37 | V |
| | | | $V_{CC}=4.5\text{V}$ | 1.35 | - | 2.12 | V |
| | | | $V_{CC}=5.5\text{V}$ | 1.61 | - | 2.62 | V |
| hysteresis voltage | V_H | see Figure 6, Figure 7 and Figure 8 | $V_{CC}=1.8\text{V}$ | 0.17 | - | 0.54 | V |
| | | | $V_{CC}=2.3\text{V}$ | 0.20 | - | 0.57 | V |
| | | | $V_{CC}=3.0\text{V}$ | 0.21 | - | 0.64 | V |
| | | | $V_{CC}=4.5\text{V}$ | 0.22 | - | 0.65 | V |
| | | | $V_{CC}=5.5\text{V}$ | 0.23 | - | 0.75 | V |

4、Testing Circuit

4.1、AC Testing Circuit

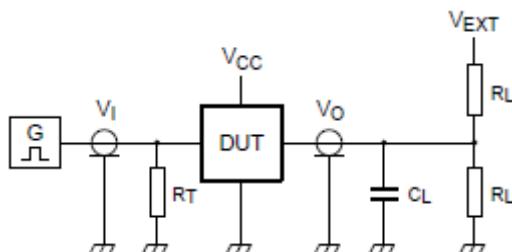


Figure 4. Test circuit for measuring switching times

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_0 of the pulse generator.

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

4.2、AC Testing Waveforms

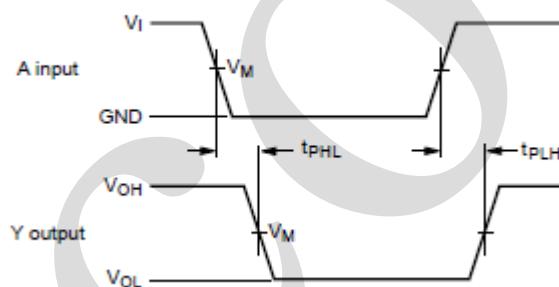


Figure 5. The data input (A) to output (Y) propagation delays

4.3、Transfer Characteristics Waveforms

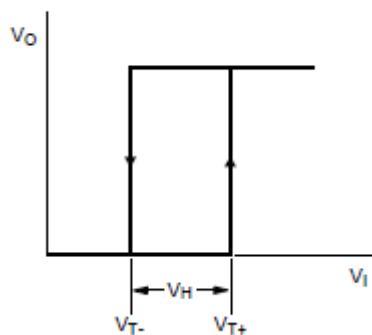


Figure 6. Transfer characteristic

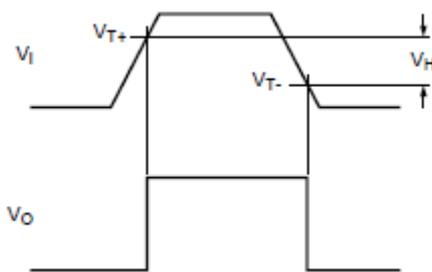
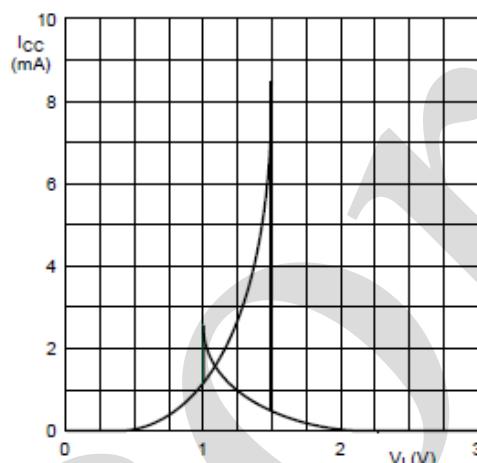
Figure 7. Definition of V_{T+} , V_{T-} , and V_H $V_{CC} = 3.0 \text{ V}$ 

Figure 8. Typical transfer characteristics

4.4、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 | $0.5 \times V_{CC}$ | $0.5 \times V_{CC}$ |

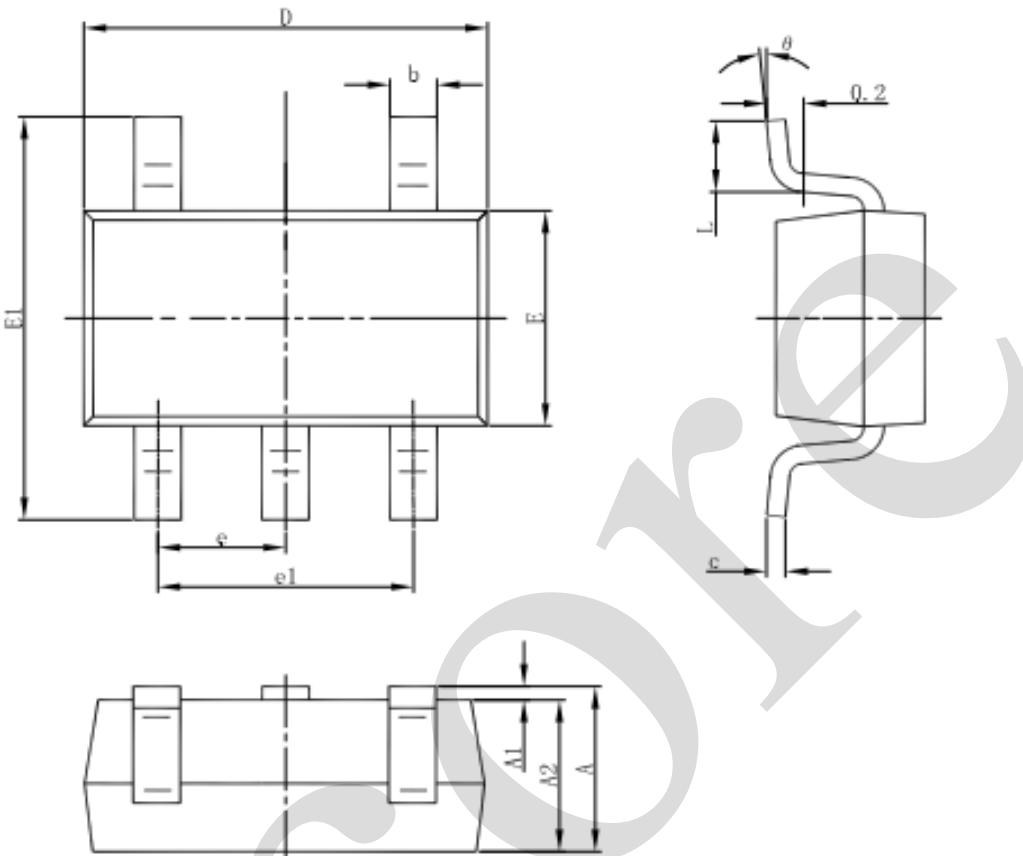
4.5、Test Data

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



5、Package Information

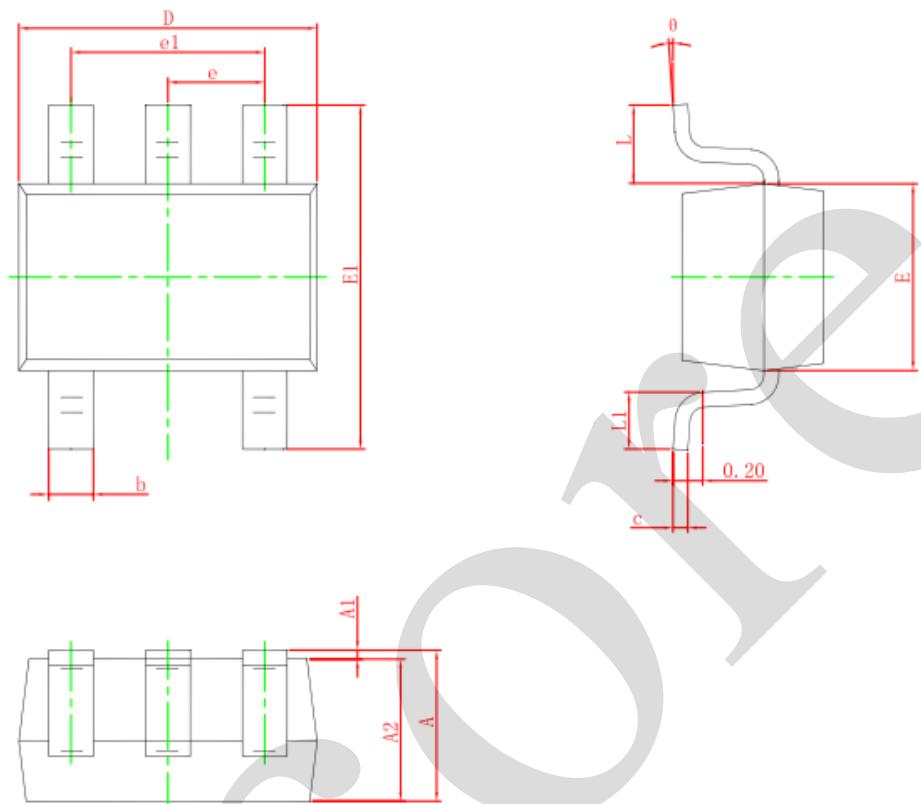
5.1、SOT-23-5



| 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 | <p>○: Indicates that the content of hazardous substances or elements in the detection limit of the following the SJ/T11363-2006 standard.</p> <p>×: Indicates that the content of hazardous substances or elements exceeding the SJ/T11363-2006 Standard limit requirements.</p> | | | | | | | | | |

6.2、Notion

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

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