



AiP74AUP1G32

Low Power Single 2-input Or Gate

Product Specification

Specification Revision History:

Version	Date	Description
2022-09-A1	2022-09	New



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1、General Description

The AiP74AUP1G32 provides the single 2-input OR function. Schmitt-trigger action at all inputs makes the circuit tolerant to slower input rise and fall times across the entire V_{CC} range from 0.8V to 3.6V. This device ensures a very low static and dynamic power consumption across the entire V_{CC} range from 0.8V to 3.6V.

Features:

- Wide supply voltage range from 0.8V to 3.6V
- Low static power consumption; $I_{CC}=1\mu A$ (maximum)
- Inputs accept voltages up to 3.6V
- Specified from $-40^{\circ}C$ to $+125^{\circ}C$
- Packaging information: SOT23-5/SOT353

Ordering Information:

Part number	Packaging form	Marking code	Reel quantity	Boxed reel quantity	Notes
AiP74AUP1G32GB235.TR	SOT23-5	DNXX	3000 PCS/reel	30000 PCS/box	Dimensions of plastic enclosure: 2.9mm×1.6mm Pin spacing: 0.95mm
AiP74AUP1G32GC353.TR	SOT353	DNXX	3000 PCS/reel	30000 PCS/box	Dimensions of plastic enclosure: 2.1mm×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

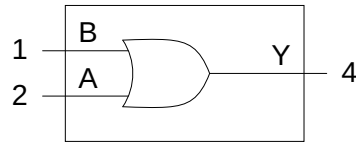


Figure 1. Logic symbol

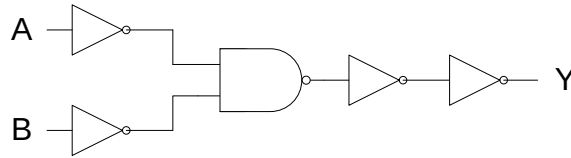
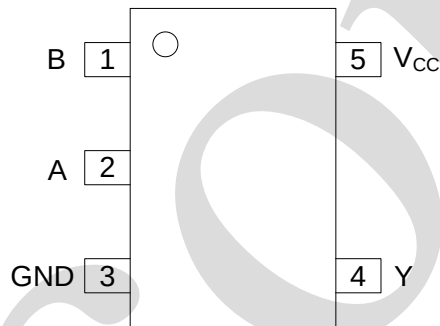


Figure 2. Logic diagram

2.2、Pin Configurations



2.3、Pin Description

Pin No.	Pin Name	Description
1	B	data input
2	A	data input
3	GND	ground (0V)
4	Y	data output
5	V _{CC}	supply voltage



2.4、Function Table

Input		Output
A	B	Y
L	L	L
L	H	H
H	L	H
H	H	H

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

3、Electrical Parameter

3.1、Absolute Maximum Ratings

($T_{amb}=25^{\circ}\text{C}$, all voltage referenced to GND (ground=0V), unless otherwise specified)

Characteristic	Symbol	Conditions	Min.	Max.	Unit
supply voltage	V_{CC}	-	-0.5	+4.6	V
input clamping current	I_{IK}	$V_I < 0V$	-50	-	mA
input voltage	V_I	-	-0.5	+4.6	V
output clamping current	I_{OK}	$V_O < 0V$	-	± 20	mA
output voltage	V_O	Active mode and Power-down mode	-0.5	+4.6	V
output current	I_O	$V_O = 0V$ to V_{CC}	-	± 20	mA
supply current	I_{CC}	-	-	+50	mA
ground current	I_{GND}	-	-50	-	mA
storage temperature	T_{stg}	-	-65	+150	$^{\circ}\text{C}$
total power dissipation	P_{tot}	-	-	250	mW
soldering temperature	T_L	10s	260		$^{\circ}\text{C}$

3.2、Recommended Operating Conditions

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
supply voltage	V_{CC}	-	0.8	-	3.6	V
input voltage	V_I	-	0	-	3.6	V
output voltage	V_O	Active mode	0	-	V_{CC}	V
		Power-down mode; $V_{CC}=0V$	0	-	3.6	V
ambient temperature	T_{amb}	-	-40	-	+125	$^{\circ}\text{C}$



3.3、Electrical Characteristics

3.3.1、DC Characteristics 1

($T_{amb}=25^{\circ}\text{C}$, 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} =0.8V		0.70×V _{CC}	-	-	V
		V _{CC} =0.9V to 1.95V		0.65×V _{CC}	-	-	V
		V _{CC} =2.3V to 2.7V		1.6	-	-	V
		V _{CC} =3.0V to 3.6V		2.0	-	-	V
LOW-level input voltage	V _{IL}	V _{CC} =0.8V		-	-	0.30×V _{CC}	V
		V _{CC} =0.9V to 1.95V		-	-	0.35×V _{CC}	V
		V _{CC} =2.3V to 2.7V		-	-	0.7	V
		V _{CC} =3.0V to 3.6V		-	-	0.9	V
HIGH-level output voltage	V _{OH}	V _I =V _{IH} or V _{IL}	I _O =-20uA; V _{CC} =0.8V to 3.6V	V _{CC} -0.1	-	-	V
			I _O =-1.1mA; V _{CC} =1.1V	0.75×V _{CC}	-	-	V
			I _O =-1.7mA; V _{CC} =1.4V	1.11	-	-	V
			I _O =-1.9mA; V _{CC} =1.65V	1.32	-	-	V
			I _O =-2.3mA; V _{CC} =2.3V	2.05	-	-	V
			I _O =-3.1mA; V _{CC} =2.3V	1.9	-	-	V
			I _O =-2.7mA; V _{CC} =3.0V	2.72	-	-	V
			I _O =-4.0mA; V _{CC} =3.0V	2.6	-	-	V
LOW-level output voltage	V _{OL}	V _I =V _{IH} or V _{IL}	I _O =20uA; V _{CC} =0.8V to 3.6V	-	-	0.1	V
			I _O =1.1mA; V _{CC} =1.1V	-	-	0.3×V _{CC}	V
			I _O =1.7mA; V _{CC} =1.4V	-	-	0.31	V
			I _O =1.9mA; V _{CC} =1.65V	-	-	0.31	V
			I _O =2.3mA; V _{CC} =2.3V	-	-	0.31	V
			I _O =3.1mA; V _{CC} =2.3V	-	-	0.44	V
			I _O =2.7mA; V _{CC} =3.0V	-	-	0.31	V
			I _O =4.0mA; V _{CC} =3.0V	-	-	0.44	V
input leakage current	I _I	V _I =GND to 3.6V; V _{CC} =0V to 3.6V		-	-	±1	uA
power-off leakage current	I _{OFF}	V _I or V _O =0V to 3.6V; V _{CC} =0V		-	-	±1	uA
additional power-off leakage current	ΔI _{OFF}	V _I or V _O =0V to 3.6V; V _{CC} =0V to 0.2V		-	-	±1	uA
supply current	I _{CC}	V _I =GND or V _{CC} ; I _O =0A; V _{CC} =0.8V to 3.6V		-	-	1	uA
additional supply current	ΔI _{CC}	V _I =V _{CC} -0.6V; I _O =0A; V _{CC} =3.3V ^[1]		-	-	40	uA
input capacitance	C _I	V _{CC} =0V to 3.6V; V _I =GND or V _{CC}		-	0.8	-	pF
output capacitance	C _O	V _O =GND; V _{CC} =0V		-	1.7	-	pF



Note:

[1] One input at $V_{CC}-0.6V$, other input at V_{CC} or GND.**3.3.2、DC Characteristics 2**(T_{amb}=-40°C to +85°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} =0.8V		0.70×V _{CC}	-	-	V
		V _{CC} =0.9V to 1.95V		0.65×V _{CC}	-	-	V
		V _{CC} =2.3V to 2.7V		1.6	-	-	V
		V _{CC} =3.0V to 3.6V		2.0	-	-	V
LOW-level input voltage	V _{IL}	V _{CC} =0.8V		-	-	0.30×V _{CC}	V
		V _{CC} =0.9V to 1.95V		-	-	0.35×V _{CC}	V
		V _{CC} =2.3V to 2.7V		-	-	0.7	V
		V _{CC} =3.0V to 3.6V		-	-	0.9	V
HIGH-level output voltage	V _{OH}	V _I =V _{IH} or V _{IL}	I _O =-20uA; V _{CC} =0.8V to 3.6V	V _{CC} -0.1	-	-	V
			I _O =-1.1mA; V _{CC} =1.1V	0.7×V _{CC}	-	-	V
			I _O =-1.7mA; V _{CC} =1.4V	1.03	-	-	V
			I _O =-1.9mA; V _{CC} =1.65V	1.30	-	-	V
			I _O =-2.3mA; V _{CC} =2.3V	1.97	-	-	V
			I _O =-3.1mA; V _{CC} =2.3V	1.85	-	-	V
			I _O =-2.7mA; V _{CC} =3.0V	2.67	-	-	V
			I _O =-4.0mA; V _{CC} =3.0V	2.55	-	-	V
LOW-level output voltage	V _{OL}	V _I =V _{IH} or V _{IL}	I _O =20uA; V _{CC} =0.8V to 3.6V	-	-	0.1	V
			I _O =1.1mA; V _{CC} =1.1V	-	-	0.3×V _{CC}	V
			I _O =1.7mA; V _{CC} =1.4V	-	-	0.37	V
			I _O =1.9mA; V _{CC} =1.65V	-	-	0.35	V
			I _O =2.3mA; V _{CC} =2.3V	-	-	0.33	V
			I _O =3.1mA; V _{CC} =2.3V	-	-	0.45	V
			I _O =2.7mA; V _{CC} =3.0V	-	-	0.33	V
			I _O =4.0mA; V _{CC} =3.0V	-	-	0.45	V
input leakage current	I _I	V _I =GND to 3.6V; V _{CC} =0V to 3.6V		-	-	±1	uA
power-off leakage current	I _{OFF}	V _I or V _O =0V to 3.6V; V _{CC} =0V		-	-	±1	uA
additional power-off leakage current	ΔI _{OFF}	V _I or V _O =0V to 3.6V; V _{CC} =0V to 0.2V		-	-	±1	uA
supply current	I _{CC}	V _I =GND or V _{CC} ; I _O =0A; V _{CC} =0.8V to 3.6V		-	-	1	uA
additional supply current	ΔI _{CC}	V _I =V _{CC} -0.6V; I _O =0A; V _{CC} =3.3V ^[1]		-	-	50	uA

Note:

[1] One input at $V_{CC}-0.6V$, other input at V_{CC} or GND.



3.3.3、DC Characteristics 3

($T_{amb} = -40^{\circ}\text{C}$ 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} =0.8V		0.75×V _{CC}	-	-	V
		V _{CC} =0.9V to 1.95V		0.70×V _{CC}	-	-	V
		V _{CC} =2.3V to 2.7V		1.6	-	-	V
		V _{CC} =3.0V to 3.6V		2.0	-	-	V
LOW-level input voltage	V _{IL}	V _{CC} =0.8V		-	-	0.25×V _{CC}	V
		V _{CC} =0.9V to 1.95V		-	-	0.30×V _{CC}	V
		V _{CC} =2.3V to 2.7V		-	-	0.7	V
		V _{CC} =3.0V to 3.6V		-	-	0.9	V
HIGH-level output voltage	V _{OH}	V _I =V _{IH} or V _{IL}	I _O =-20uA; V _{CC} =0.8V to 3.6V	V _{CC} -0.11	-	-	V
			I _O =-1.1mA; V _{CC} =1.1V	0.6×V _{CC}	-	-	V
			I _O =-1.7mA; V _{CC} =1.4V	0.93	-	-	V
			I _O =-1.9mA; V _{CC} =1.65V	1.17	-	-	V
			I _O =-2.3mA; V _{CC} =2.3V	1.77	-	-	V
			I _O =-3.1mA; V _{CC} =2.3V	1.67	-	-	V
			I _O =-2.7mA; V _{CC} =3.0V	2.40	-	-	V
			I _O =-4.0mA; V _{CC} =3.0V	2.30	-	-	V
LOW-level output voltage	V _{OL}	V _I =V _{IH} or V _{IL}	I _O =20uA; V _{CC} =0.8V to 3.6V	-	-	0.11	V
			I _O =1.1mA; V _{CC} =1.1V	-	-	0.33×V _{CC}	V
			I _O =1.7mA; V _{CC} =1.4V	-	-	0.41	V
			I _O =1.9mA; V _{CC} =1.65V	-	-	0.39	V
			I _O =2.3mA; V _{CC} =2.3V	-	-	0.36	V
			I _O =3.1mA; V _{CC} =2.3V	-	-	0.50	V
			I _O =2.7mA; V _{CC} =3.0V	-	-	0.36	V
			I _O =4.0mA; V _{CC} =3.0V	-	-	0.50	V
input leakage current	I _I	V _I =GND to 3.6V; V _{CC} =0V to 3.6V		-	-	±1	uA
power-off leakage current	I _{OFF}	V _I or V _O =0V to 3.6V; V _{CC} =0V		-	-	±1	uA
additional power-off leakage current	ΔI _{OFF}	V _I or V _O =0V to 3.6V; V _{CC} =0V to 0.2V		-	-	±1	uA
supply current	I _{CC}	V _I =GND or V _{CC} ; I _O =0A; V _{CC} =0.8V to 3.6V		-	-	1	uA
additional supply current	ΔI _{CC}	V _I =V _{CC} -0.6V; I _O =0A; V _{CC} =3.3V ^[1]		-	-	75	uA

Note:

[1] One input at $V_{CC}-0.6\text{V}$, other input at V_{CC} or GND.



3.3.4、AC Characteristics 1

($T_{amb}=25^{\circ}\text{C}$, voltages are referenced to GND (ground=0V), unless otherwise specified)

Parameter	Symbol	Conditions	Min.	Typ. ^[1]	Max.	Unit
propagation delay	t_{PLH}, t_{PHL}	A, B to Y; see Figure 5	$C_L=5\text{pF}$			
			$V_{CC}=0.8\text{V}$	-	16.8	- ns
			$V_{CC}=1.1\text{V to }1.3\text{V}$	2.4	5.1	10.9 ns
			$V_{CC}=1.4\text{V to }1.6\text{V}$	1.6	3.6	6.6 ns
			$V_{CC}=1.65\text{V to }1.95\text{V}$	1.4	3.0	5.2 ns
			$V_{CC}=2.3\text{V to }2.7\text{V}$	1.1	2.4	3.9 ns
			$V_{CC}=3.0\text{V to }3.6\text{V}$	1.0	2.1	3.5 ns
			$C_L=10\text{pF}$			
			$V_{CC}=0.8\text{V}$	-	20.3	- ns
			$V_{CC}=1.1\text{V to }1.3\text{V}$	2.3	5.9	12.7 ns
			$V_{CC}=1.4\text{V to }1.6\text{V}$	1.9	4.2	7.7 ns
			$V_{CC}=1.65\text{V to }1.95\text{V}$	1.7	3.5	6.0 ns
			$V_{CC}=2.3\text{V to }2.7\text{V}$	1.4	2.9	4.6 ns
			$V_{CC}=3.0\text{V to }3.6\text{V}$	1.3	2.7	4.3 ns
			$C_L=15\text{pF}$			
			$V_{CC}=0.8\text{V}$	-	23.8	- ns
			$V_{CC}=1.1\text{V to }1.3\text{V}$	3.3	6.7	14.3 ns
			$V_{CC}=1.4\text{V to }1.6\text{V}$	2.3	4.8	8.6 ns
			$V_{CC}=1.65\text{V to }1.95\text{V}$	2.0	4.0	6.7 ns
			$V_{CC}=2.3\text{V to }2.7\text{V}$	1.7	3.3	5.3 ns
			$V_{CC}=3.0\text{V to }3.6\text{V}$	1.5	3.1	4.9 ns
			$C_L=30\text{pF}$			
			$V_{CC}=0.8\text{V}$	-	34.1	- ns
			$V_{CC}=1.1\text{V to }1.3\text{V}$	4.5	9.0	19.1 ns
			$V_{CC}=1.4\text{V to }1.6\text{V}$	3.4	6.3	11.3 ns
			$V_{CC}=1.65\text{V to }1.95\text{V}$	2.6	5.3	8.9 ns
			$V_{CC}=2.3\text{V to }2.7\text{V}$	2.3	4.4	7.0 ns
			$V_{CC}=3.0\text{V to }3.6\text{V}$	2.2	4.2	6.4 ns

Note:

[1] All typical values are measured at nominal V_{CC} .



3.3.5、AC Characteristics 2

($T_{amb} = -40^{\circ}\text{C}$ to $+85^{\circ}\text{C}$, voltages are referenced to GND (ground=0V), unless otherwise specified)

Parameter	Symbol	Conditions		Min.	Typ.	Max.	Unit
propagation delay	t_{PLH} , t_{PHL}	A, B to Y; see Figure 5	$C_L=5pF$				
			$V_{CC}=1.1V$ to $1.3V$	2.1	-	11.9	ns
			$V_{CC}=1.4V$ to $1.6V$	1.4	-	7.5	ns
			$V_{CC}=1.65V$ to $1.95V$	1.2	-	6.0	ns
			$V_{CC}=2.3V$ to $2.7V$	1.0	-	4.6	ns
			$V_{CC}=3.0V$ to $3.6V$	0.9	-	4.1	ns
			$C_L=10pF$				
			$V_{CC}=1.1V$ to $1.3V$	2.1	-	13.8	ns
			$V_{CC}=1.4V$ to $1.6V$	1.7	-	8.7	ns
			$V_{CC}=1.65V$ to $1.95V$	1.5	-	6.9	ns
			$V_{CC}=2.3V$ to $2.7V$	1.3	-	5.5	ns
			$V_{CC}=3.0V$ to $3.6V$	1.2	-	5.0	ns
			$C_L=15pF$				
			$V_{CC}=1.1V$ to $1.3V$	3.0	-	15.6	ns
			$V_{CC}=1.4V$ to $1.6V$	2.0	-	9.8	ns
			$V_{CC}=1.65V$ to $1.95V$	1.8	-	7.9	ns
			$V_{CC}=2.3V$ to $2.7V$	1.6	-	6.3	ns
			$V_{CC}=3.0V$ to $3.6V$	1.5	-	5.8	ns
			$C_L=30pF$				
			$V_{CC}=1.1V$ to $1.3V$	4.0	-	21.5	ns
			$V_{CC}=1.4V$ to $1.6V$	2.9	-	13.3	ns
			$V_{CC}=1.65V$ to $1.95V$	2.4	-	10.7	ns
			$V_{CC}=2.3V$ to $2.7V$	2.2	-	8.4	ns
			$V_{CC}=3.0V$ to $3.6V$	2.1	-	7.7	ns



3.3.6、AC Characteristics 3

($T_{amb}=-40^{\circ}\text{C}$ to $+125^{\circ}\text{C}$, voltages are referenced to GND (ground=0V), unless otherwise specified)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit	
propagation delay	t_{PLH}, t_{PHL}	A, B to Y; see Figure 5 ^[1]	$C_L=5\text{pF}$				
			$V_{CC}=1.1\text{V to }1.3\text{V}$	2.1	-	13.2	ns
			$V_{CC}=1.4\text{V to }1.6\text{V}$	1.4	-	8.3	ns
			$V_{CC}=1.65\text{V to }1.95\text{V}$	1.2	-	6.6	ns
			$V_{CC}=2.3\text{V to }2.7\text{V}$	1.0	-	5.1	ns
			$V_{CC}=3.0\text{V to }3.6\text{V}$	0.9	-	4.6	ns
			$C_L=10\text{pF}$				
			$V_{CC}=1.1\text{V to }1.3\text{V}$	2.1	-	15.2	ns
			$V_{CC}=1.4\text{V to }1.6\text{V}$	1.7	-	9.6	ns
			$V_{CC}=1.65\text{V to }1.95\text{V}$	1.5	-	7.7	ns
			$V_{CC}=2.3\text{V to }2.7\text{V}$	1.3	-	6.1	ns
			$V_{CC}=3.0\text{V to }3.6\text{V}$	1.2	-	5.5	ns
			$C_L=15\text{pF}$				
			$V_{CC}=1.1\text{V to }1.3\text{V}$	3.0	-	17.2	ns
			$V_{CC}=1.4\text{V to }1.6\text{V}$	2.0	-	10.8	ns
			$V_{CC}=1.65\text{V to }1.95\text{V}$	1.8	-	8.7	ns
			$V_{CC}=2.3\text{V to }2.7\text{V}$	1.6	-	6.9	ns
			$V_{CC}=3.0\text{V to }3.6\text{V}$	1.5	-	6.4	ns
			$C_L=30\text{pF}$				
			$V_{CC}=1.1\text{V to }1.3\text{V}$	4.0	-	23.7	ns
			$V_{CC}=1.4\text{V to }1.6\text{V}$	2.9	-	14.7	ns
			$V_{CC}=1.65\text{V to }1.95\text{V}$	2.4	-	11.8	ns
			$V_{CC}=2.3\text{V to }2.7\text{V}$	2.2	-	9.3	ns
			$V_{CC}=3.0\text{V to }3.6\text{V}$	2.1	-	8.5	ns

4、Testing Circuit

4.1、AC Testing Circuit

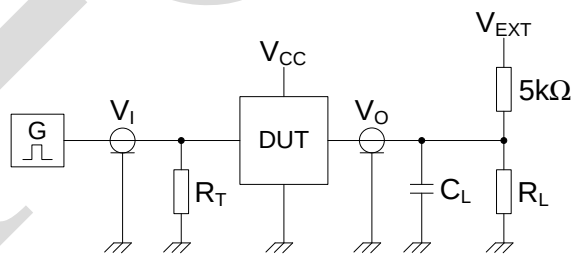


Figure 4. Test circuit for measuring switching times

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

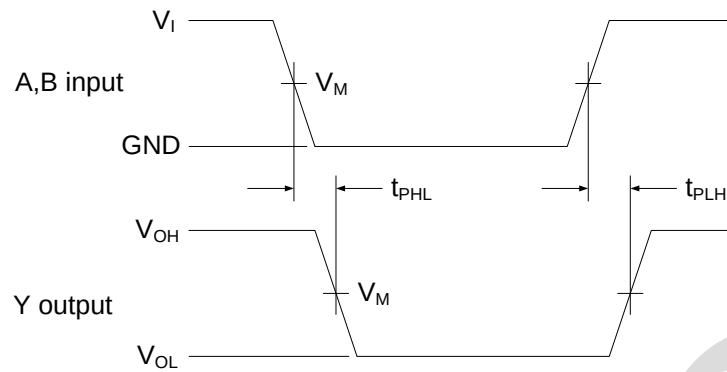


Figure 5. The data input (A or B) to output (Y) propagation delays

4.3、Measurement Points

Supply voltage	Output	Input		
V_{CC}	V_M	V_M	V_I	$t_r=t_f$
0.8V to 3.6V	$0.5 \times V_{CC}$	$0.5 \times V_{CC}$	V_{CC}	$\leq 3.0\text{ns}$

4.4、Test Data

Supply voltage	Load		V_{EXT}		
V_{CC}	C_L	$R_L^{[1]}$	t_{PLH}, t_{PHL}	t_{PZH}, t_{PHZ}	t_{PZL}, t_{PLZ}
0.8V to 3.6V	5pF, 10pF, 15pF and 30pF	5k Ω or 1M Ω	open	GND	$2 \times V_{CC}$

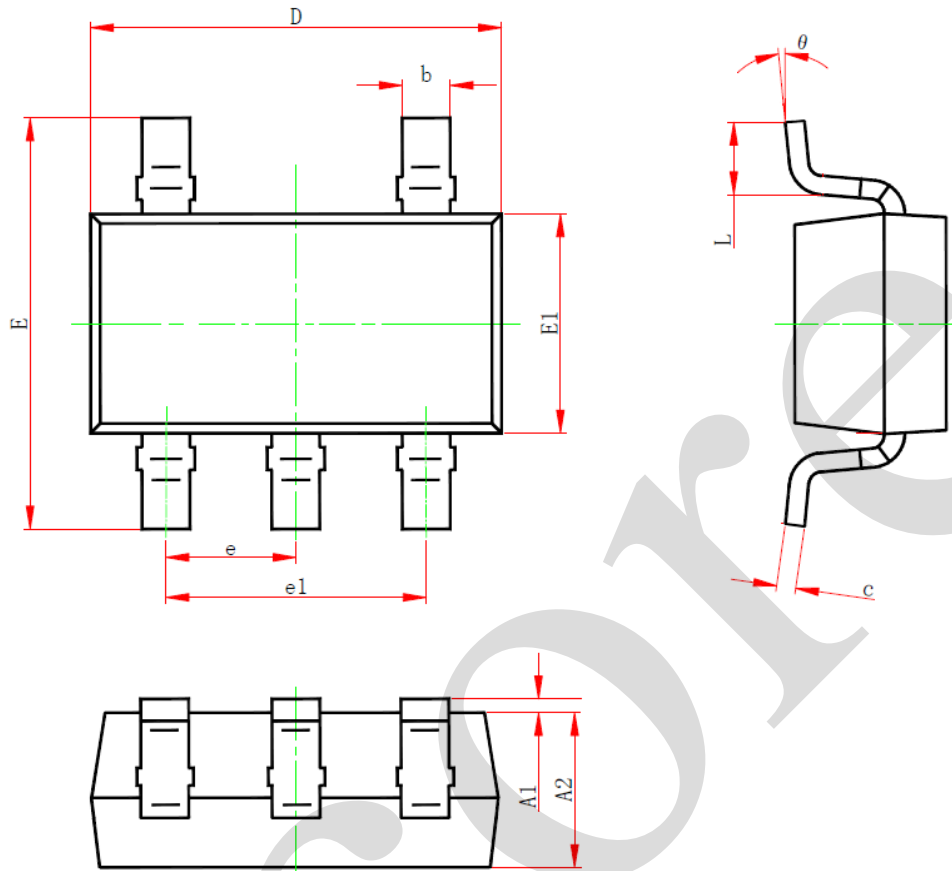
Note:

[1] For measuring enable and disable times $R_L=5\text{k}\Omega$, for measuring propagation delays, setup and hold times and pulse width $R_L=1\text{M}\Omega$.



5、Package Information

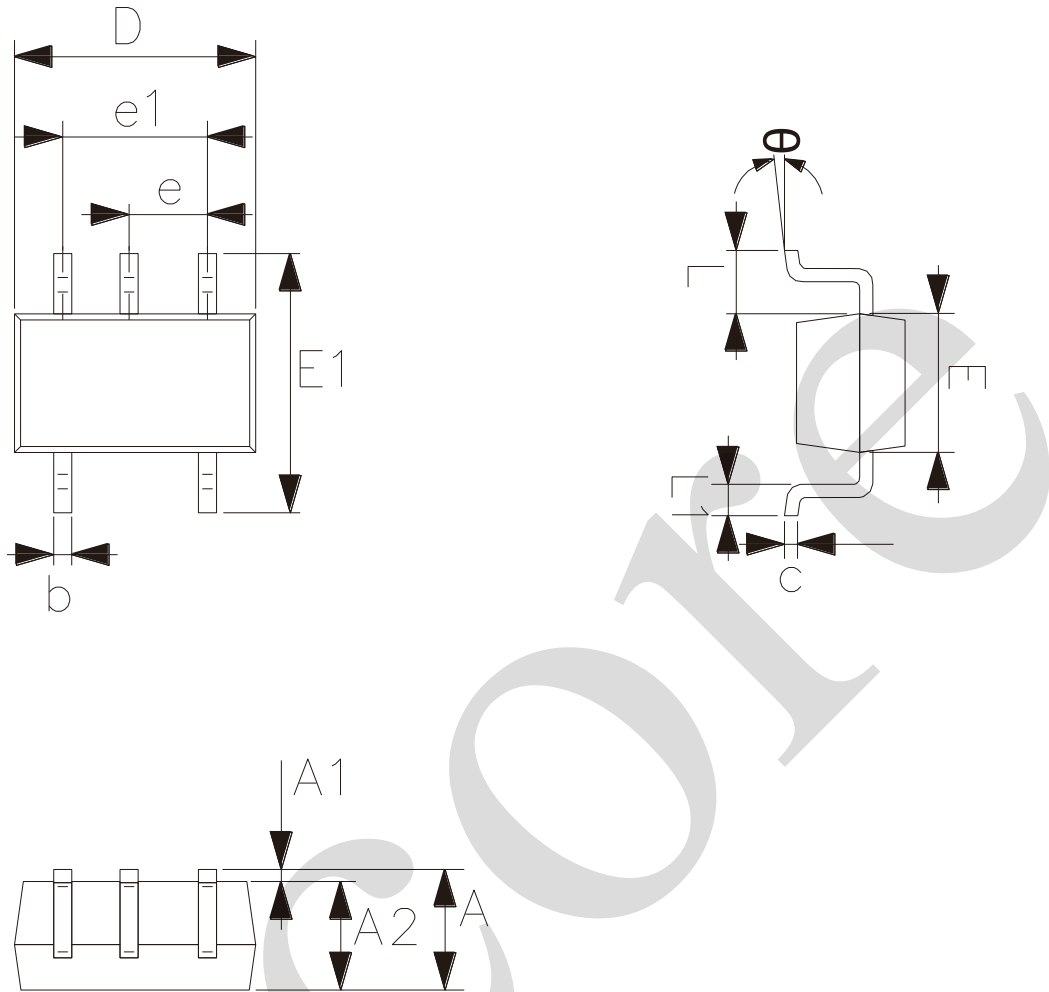
5.1、SOT23-5



Symbol	Dimensions (mm)	
	Min.	Max.
A	-	1.26
A1	0.00	0.12
A2	1.00	1.20
b	0.30	0.50
c	0.10	0.20
D	2.82	3.02
E	2.60	3.00
E1	1.50	1.70
e	0.95	
e1	1.80	2.00
L	0.30	0.60
θ	0°	8°



5.2、SOT353



Symbol	Dimensions (mm)	
	Min.	Max.
A	0.90	1.10
A1	0.00	0.10
A2	0.90	1.00
b	0.15	0.35
c	0.11	0.175
D	2.00	2.20
E	1.15	1.35
E1	2.15	2.45
e	0.65	
e1	1.20	1.40
L	0.525	
L1	0.26	0.46
θ	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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