



AiP74AUP1GU04

Low Power Single Unbuffered Inverter

Product Specification

Specification Revision History:

Version	Date	Description
2025-07-A0	2025-07	New
2025-11-A1	2025-11	Modify the parameters



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**1、General Description**

The AiP74AUP1GU04 provides the single unbuffered inverting gate.

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: XSON6/SOT23-5/SOT353/DFN4

Ordering Information:

Part number	Packaging form	Marking code	Reel quantity	Boxed reel quantity	Notes
AiP74AUP1GU04 GB235.TR	SOT23-5	AiP DQ	3000 PCS/reel	30000 PCS/box	Dimensions of plastic enclosure: 2.9mm×1.6mm Pin spacing: 0.95mm
AiP74AUP1GU04 GC353.TR	SOT353	DQXX	3000 PCS/reel	30000 PCS/box	Dimensions of plastic enclosure: 2.1mm×1.3mm Pin spacing: 0.65mm
AiP74AUP1GU04 XD4.TR	DFN4	DQX	12000 PCS/reel	120000 PCS/box	Dimensions of plastic enclosure: 0.8mm×0.8mm Pin spacing: 0.5mm
AiP74AUP1GU04 EA6.TR	XSON6	DQ XX	5000 PCS/reel	25000 PCS/box	Dimensions of plastic enclosure: 1.45mm×1.0mm Pin spacing: 0.5mm
AiP74AUP1GU04 ED6.TR	XSON6	DQ XX	5000 PCS/reel	25000 PCS/box	Dimensions of plastic enclosure: 1.0mm×1.0mm Pin spacing: 0.35mm

Note 1: “XX” refers to variable content, meaning 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

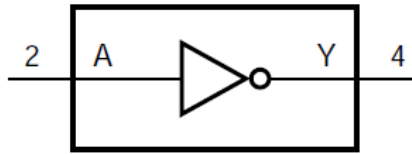


Figure 1. Logic symbol



Figure 2. IEC Logic symbol

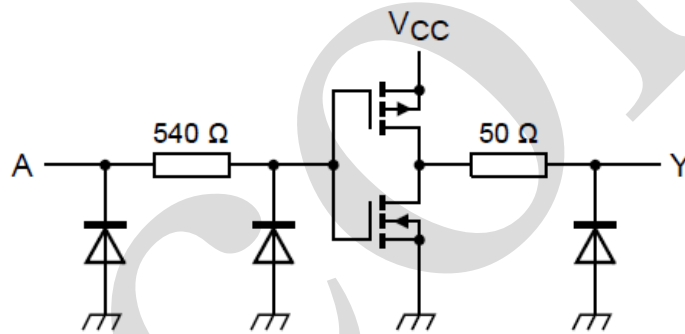
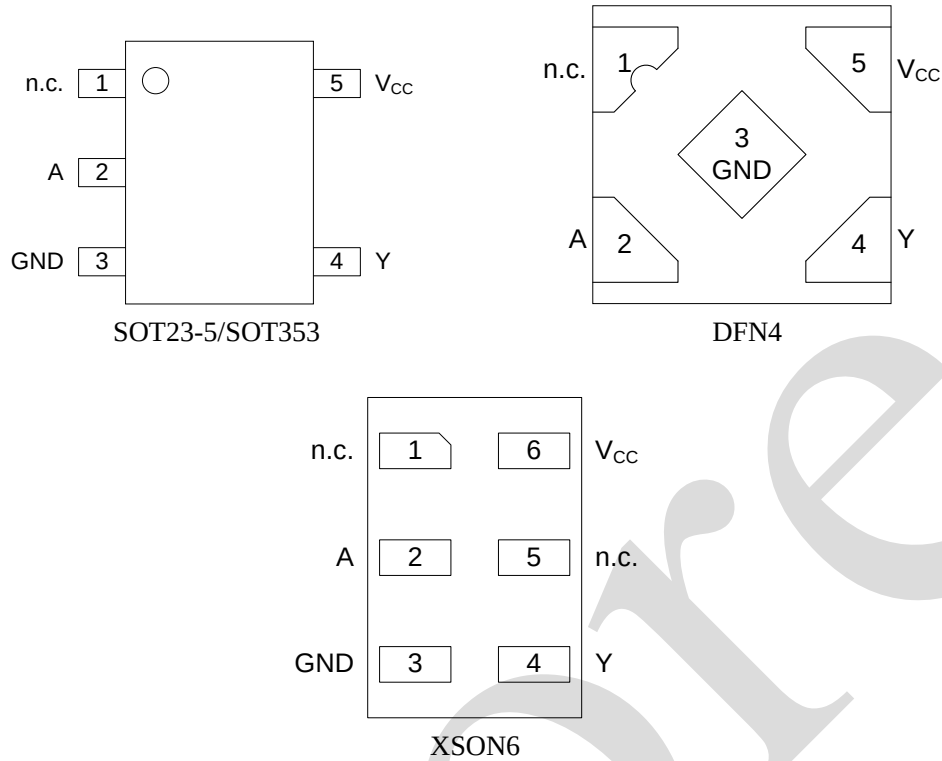


Figure 3. Logic diagram



2.2、Pin Configurations



2.3、Pin Description

Pin No.		Pin Name	Description
SOT23-5/SOT353/DFN4	XSON6		
1	1, 5	n.c.	not connected
2	2	A	data input
3	3	GND	ground (0V)
4	4	Y	data output
5	6	V _{CC}	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

($T_{amb}=25^{\circ}\text{C}$, 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}	$V_I < 0\text{V}$	-50	-	mA
input voltage	V_I	- ^[1]	-0.5	+4.6	V
output clamping current	I_{OK}	$V_O < 0\text{V}$	-50	-	mA
output voltage	V_O	Active mode ^[1]	-0.5	$V_{CC}+0.5$	V
		Power-down mode ^[1]	-0.5	+4.6	V
output current	I_O	$V_O=0\text{V}$ 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		$^{\circ}\text{C}$

Note:

[1] The input and output voltage ratings may be exceeded if the input and output current ratings are observed.

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; $V_{CC}=0\text{V}$	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}	$V_{CC}=0.8\text{V to }3.6\text{V}$		$0.75 \times V_{CC}$	-	-	V
LOW-level input voltage	V_{IL}	$V_{CC}=0.8\text{V to }3.6\text{V}$		-	-	$0.25 \times V_{CC}$	V
HIGH-level output voltage	V_{OH}	$V_I = V_{CC} \text{ or GND}$	$I_O=-20\mu\text{A}; V_{CC}=0.8\text{V to }3.6\text{V}$	$V_{CC}-0.1$	-	-	V
			$I_O=-1.1\text{mA}; V_{CC}=1.1\text{V}$	$0.75 \times V_{CC}$	-	-	V
			$I_O=-1.7\text{mA}; V_{CC}=1.4\text{V}$	1.11	-	-	V
			$I_O=-1.9\text{mA}; V_{CC}=1.65\text{V}$	1.32	-	-	V
			$I_O=-2.3\text{mA}; V_{CC}=2.3\text{V}$	2.05	-	-	V
			$I_O=-3.1\text{mA}; V_{CC}=2.3\text{V}$	1.9	-	-	V
			$I_O=-2.7\text{mA}; V_{CC}=3.0\text{V}$	2.72	-	-	V
			$I_O=-4.0\text{mA}; V_{CC}=3.0\text{V}$	2.6	-	-	V
LOW-level output voltage	V_{OL}	$V_I = V_{CC} \text{ or GND}$	$I_O=20\mu\text{A}; V_{CC}=0.8\text{V to }3.6\text{V}$	-	-	0.1	V
			$I_O=1.1\text{mA}; V_{CC}=1.1\text{V}$	-	-	$0.3 \times V_{CC}$	V
			$I_O=1.7\text{mA}; V_{CC}=1.4\text{V}$	-	-	0.31	V
			$I_O=1.9\text{mA}; V_{CC}=1.65\text{V}$	-	-	0.31	V
			$I_O=2.3\text{mA}; V_{CC}=2.3\text{V}$	-	-	0.31	V
			$I_O=3.1\text{mA}; V_{CC}=2.3\text{V}$	-	-	0.44	V
			$I_O=2.7\text{mA}; V_{CC}=3.0\text{V}$	-	-	0.31	V
			$I_O=4.0\text{mA}; V_{CC}=3.0\text{V}$	-	-	0.44	V
input leakage current	I_I	$V_I=\text{GND to }3.6\text{V}; V_{CC}=0\text{V to }3.6\text{V}$		-	-	± 1	μA
supply current	I_{CC}	$V_I=\text{GND or }V_{CC}; I_O=0\text{A}; V_{CC}=0.8\text{V to }3.6\text{V}$		-	-	1	μA



3.3.2、DC 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
HIGH-level input voltage	V_{IH}	$V_{CC}=0.8\text{V}$ to 3.6V		$0.75 \times V_{CC}$	-	-	V
LOW-level input voltage	V_{IL}	$V_{CC}=0.8\text{V}$ to 3.6V		-	-	$0.25 \times V_{CC}$	V
HIGH-level output voltage	V_{OH}	$V_I = V_{CC}$ or GND	$I_O = -20\mu\text{A}; V_{CC}=0.8\text{V}$ to 3.6V	$V_{CC}-0.1$	-	-	V
			$I_O = -1.1\text{mA}; V_{CC}=1.1\text{V}$	$0.7 \times V_{CC}$	-	-	V
			$I_O = -1.7\text{mA}; V_{CC}=1.4\text{V}$	1.03	-	-	V
			$I_O = -1.9\text{mA}; V_{CC}=1.65\text{V}$	1.30	-	-	V
			$I_O = -2.3\text{mA}; V_{CC}=2.3\text{V}$	1.97	-	-	V
			$I_O = -3.1\text{mA}; V_{CC}=2.3\text{V}$	1.85	-	-	V
			$I_O = -2.7\text{mA}; V_{CC}=3.0\text{V}$	2.67	-	-	V
			$I_O = -4.0\text{mA}; V_{CC}=3.0\text{V}$	2.55	-	-	V
LOW-level output voltage	V_{OL}	$V_I = V_{CC}$ or GND	$I_O = 20\mu\text{A}; V_{CC}=0.8\text{V}$ to 3.6V	-	-	0.1	V
			$I_O = 1.1\text{mA}; V_{CC}=1.1\text{V}$	-	-	$0.3 \times V_{CC}$	V
			$I_O = 1.7\text{mA}; V_{CC}=1.4\text{V}$	-	-	0.37	V
			$I_O = 1.9\text{mA}; V_{CC}=1.65\text{V}$	-	-	0.35	V
			$I_O = 2.3\text{mA}; V_{CC}=2.3\text{V}$	-	-	0.33	V
			$I_O = 3.1\text{mA}; V_{CC}=2.3\text{V}$	-	-	0.45	V
			$I_O = 2.7\text{mA}; V_{CC}=3.0\text{V}$	-	-	0.33	V
			$I_O = 4.0\text{mA}; V_{CC}=3.0\text{V}$	-	-	0.45	V
input leakage current	I_I	$V_I = \text{GND}$ to $3.6\text{V}; V_{CC}=0\text{V}$ to 3.6V		-	-	± 2	μA
supply current	I_{CC}	$V_I = \text{GND}$ or $V_{CC}; I_O = 0\text{A}; V_{CC}=0.8\text{V}$ to 3.6V		-	-	2	μA



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.	Uni
HIGH-level	V_{IH}	$V_{CC}=0.8\text{V}$ to 3.6V		$0.75 \times V_{CC}$	-	-	V
LOW-level	V_{IL}	$V_{CC}=0.8\text{V}$ to 3.6V		-	-	$0.25 \times V_{CC}$	V
HIGH-level output voltage	V_{OH}	$V_I = V_{IH}$ or V_{IL}	$I_O = -20\mu\text{A}; V_{CC}=0.8\text{V}$ to 3.6V	$V_{CC}-0.11$	-	-	V
			$I_O = -1.1\text{mA};$	$0.6 \times V_{CC}$	-	-	V
			$I_O = -1.7\text{mA};$	0.93	-	-	V
			$I_O = -1.9\text{mA};$	1.17	-	-	V
			$I_O = -2.3\text{mA};$	1.77	-	-	V
			$I_O = -3.1\text{mA};$	1.67	-	-	V
			$I_O = -2.7\text{mA};$	2.40	-	-	V
			$I_O = -4.0\text{mA};$	2.30	-	-	V
LOW-level output voltage	V_{OL}	$V_I = V_{IH}$ or V_{IL}	$I_O = 20\mu\text{A}; V_{CC}=0.8\text{V}$ to 3.6V	-	-	0.11	V
			$I_O = 1.1\text{mA};$	-	-	$0.33 \times V_{CC}$	V
			$I_O = 1.7\text{mA};$	-	-	0.41	V
			$I_O = 1.9\text{mA};$	-	-	0.39	V
			$I_O = 2.3\text{mA};$	-	-	0.36	V
			$I_O = 3.1\text{mA};$	-	-	0.50	V
			$I_O = 2.7\text{mA};$	-	-	0.36	V
			$I_O = 4.0\text{mA};$	-	-	0.50	V
input leakage current	I_I	$V_I = \text{GND}$ to $3.6\text{V}; V_{CC} = 0\text{V}$ to 3.6V		-	-	± 4	μA
supply current	I_{CC}	$V_I = \text{GND}$ or $V_{CC}; I_O = 0\text{A}; V_{CC} = 0.8\text{V}$ to 3.6V		-	-	4	μA



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}	nA to nY; see Figure 5	C _L =5pF				
			V _{CC} =0.8V	-	6.2	-	ns
			V _{CC} =1.1V to 1.3V	0.9	2.3	4.4	ns
			V _{CC} =1.4V to 1.6V	0.7	1.7	3.1	ns
			V _{CC} =1.65V to 1.95V	0.5	1.4	2.6	ns
			V _{CC} =2.3V to 2.7V	0.4	1.1	2	ns
			V _{CC} =3.0V to 3.6V	0.3	1	1.8	ns
			C _L =10pF				
			V _{CC} =0.8V	-	9.6	-	ns
			V _{CC} =1.1V to 1.3V	1.2	3.1	6.1	ns
			V _{CC} =1.4V to 1.6V	1	2.3	4	ns
			V _{CC} =1.65V to 1.95V	0.8	1.9	3.3	ns
			V _{CC} =2.3V to 2.7V	0.6	1.5	2.7	ns
			V _{CC} =3.0V to 3.6V	0.5	1.3	2.4	ns
			C _L =15pF				
			V _{CC} =0.8V	-	13	-	ns
			V _{CC} =1.1V to 1.3V	1.6	3.8	7.9	ns
			V _{CC} =1.4V to 1.6V	1.3	2.8	4.9	ns
			V _{CC} =1.65V to 1.95V	1	2.3	4	ns
			V _{CC} =2.3V to 2.7V	0.8	1.9	3.2	ns
			V _{CC} =3.0V to 3.6V	0.7	1.6	2.9	ns
			C _L =30pF				
			V _{CC} =0.8V	-	23.2	-	ns
			V _{CC} =1.1V to 1.3V	2.4	6	13.1	ns
			V _{CC} =1.4V to 1.6V	2	4.2	7.6	ns
			V _{CC} =1.65V to 1.95V	1.7	3.6	6.1	ns
			V _{CC} =2.3V to 2.7V	1.4	2.9	4.8	ns
			V _{CC} =3.0V to 3.6V	1.2	2.5	4.3	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}	nA to nY; see Figure 5	$C_L=5pF$				
			$V_{CC}=0.8V$	-	-	-	ns
			$V_{CC}=1.1V$ to 1.3V	0.9	-	4.8	ns
			$V_{CC}=1.4V$ to 1.6V	0.6	-	3.4	ns
			$V_{CC}=1.65V$ to 1.95V	0.5	-	2.9	ns
			$V_{CC}=2.3V$ to 2.7V	0.4	-	2.3	ns
			$V_{CC}=3.0V$ to 3.6V	0.3	-	2.1	ns
			$C_L=10pF$				
			$V_{CC}=0.8V$	-	-	-	ns
			$V_{CC}=1.1V$ to 1.3V	1.2	-	6.8	ns
			$V_{CC}=1.4V$ to 1.6V	0.9	-	4.6	ns
			$V_{CC}=1.65V$ to 1.95V	0.7	-	3.8	ns
			$V_{CC}=2.3V$ to 2.7V	0.6	-	3.1	ns
			$V_{CC}=3.0V$ to 3.6V	0.5	-	2.7	ns
			$C_L=15pF$				
			$V_{CC}=0.8V$	-	-	-	ns
			$V_{CC}=1.1V$ to 1.3V	1.4	-	8.8	ns
			$V_{CC}=1.4V$ to 1.6V	1.1	-	5.7	ns
			$V_{CC}=1.65V$ to 1.95V	0.9	-	4.7	ns
			$V_{CC}=2.3V$ to 2.7V	0.8	-	3.7	ns
			$V_{CC}=3.0V$ to 3.6V	0.7	-	3.3	ns
			$C_L=30pF$				
			$V_{CC}=0.8V$	-	-	-	ns
			$V_{CC}=1.1V$ to 1.3V	2.2	-	14.8	ns
			$V_{CC}=1.4V$ to 1.6V	1.8	-	9.0	ns
			$V_{CC}=1.65V$ to 1.95V	1.5	-	7.2	ns
			$V_{CC}=2.3V$ to 2.7V	1.3	-	5.7	ns
			$V_{CC}=3.0V$ to 3.6V	1.1	-	5.1	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}	nA to nY; see Figure 5	$C_L=5pF$				
			$V_{CC}=0.8V$	-	-	-	ns
			$V_{CC}=1.1V$ to 1.3V	0.9	-	5.3	ns
			$V_{CC}=1.4V$ to 1.6V	0.6	-	3.8	ns
			$V_{CC}=1.65V$ to 1.95V	0.5	-	3.2	ns
			$V_{CC}=2.3V$ to 2.7V	0.4	-	26	ns
			$V_{CC}=3.0V$ to 3.6V	0.3	-	2.4	ns
			$C_L=10pF$				
			$V_{CC}=0.8V$	-	-	-	ns
			$V_{CC}=1.1V$ to 1.3V	1.2	-	7.5	ns
			$V_{CC}=1.4V$ to 1.6V	0.9	-	5.1	ns
			$V_{CC}=1.65V$ to 1.95V	0.7	-	4.2	ns
			$V_{CC}=2.3V$ to 2.7V	0.6	-	3.5	ns
			$V_{CC}=3.0V$ to 3.6V	0.5	-	3.0	ns
			$C_L=15pF$				
			$V_{CC}=0.8V$	-	-	-	ns
			$V_{CC}=1.1V$ to 1.3V	1.4	-	9.7	ns
			$V_{CC}=1.4V$ to 1.6V	1.1	-	6.3	ns
			$V_{CC}=1.65V$ to 1.95V	0.9	-	5.2	ns
			$V_{CC}=2.3V$ to 2.7V	0.8	-	4.1	ns
			$V_{CC}=3.0V$ to 3.6V	0.7	-	3.7	ns
			$C_L=30pF$				
			$V_{CC}=0.8V$	-	-	-	ns
			$V_{CC}=1.1V$ to 1.3V	2.2	-	16.3	ns
			$V_{CC}=1.4V$ to 1.6V	1.8	-	9.9	ns
			$V_{CC}=1.65V$ to 1.95V	1.5	-	8.0	ns
			$V_{CC}=2.3V$ to 2.7V	1.3	-	6.3	ns
			$V_{CC}=3.0V$ to 3.6V	1.1	-	5.7	ns



4、Testing Circuit

4.1、AC Testing Circuit

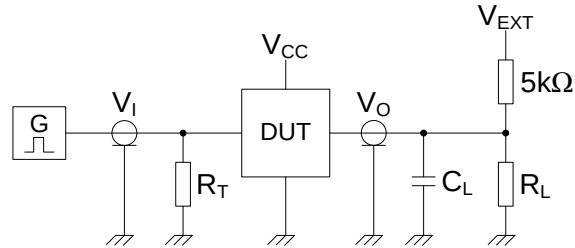


Figure 4. Test circuit for measuring switching times

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

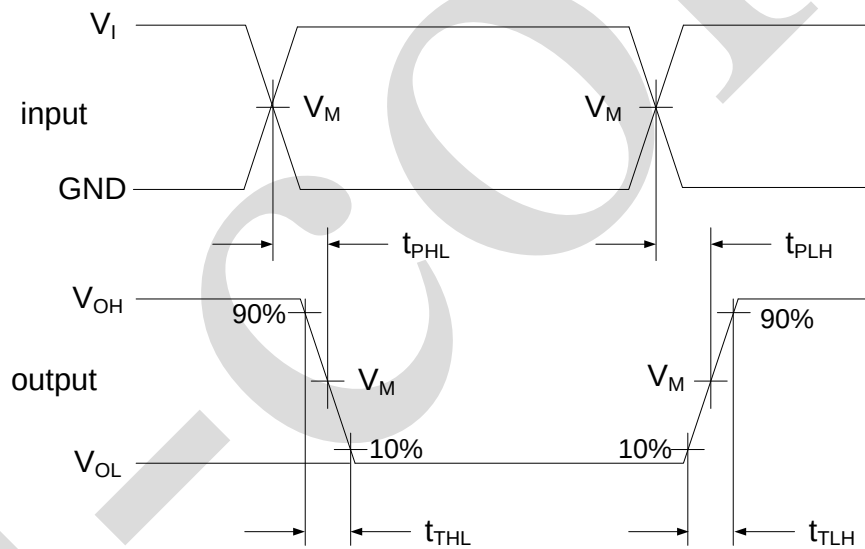


Figure 5. The data input (A) to output (Y) propagation delays



4.3、Measurement Points

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

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	$2 \times V_{CC}$

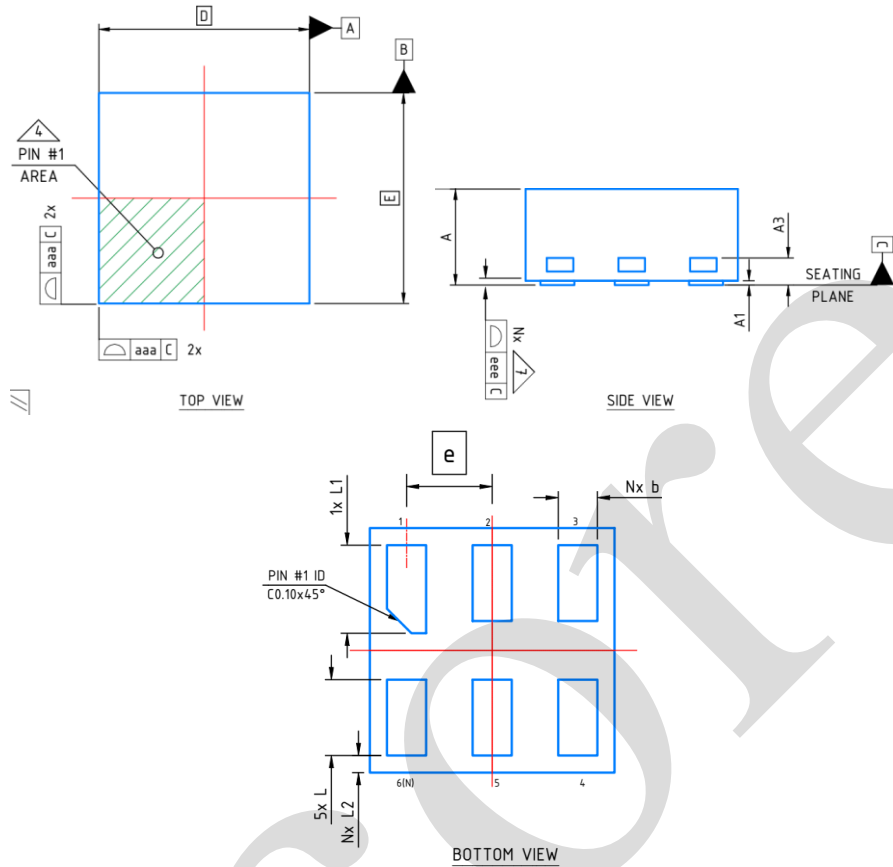
Note:

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



5、Package Information

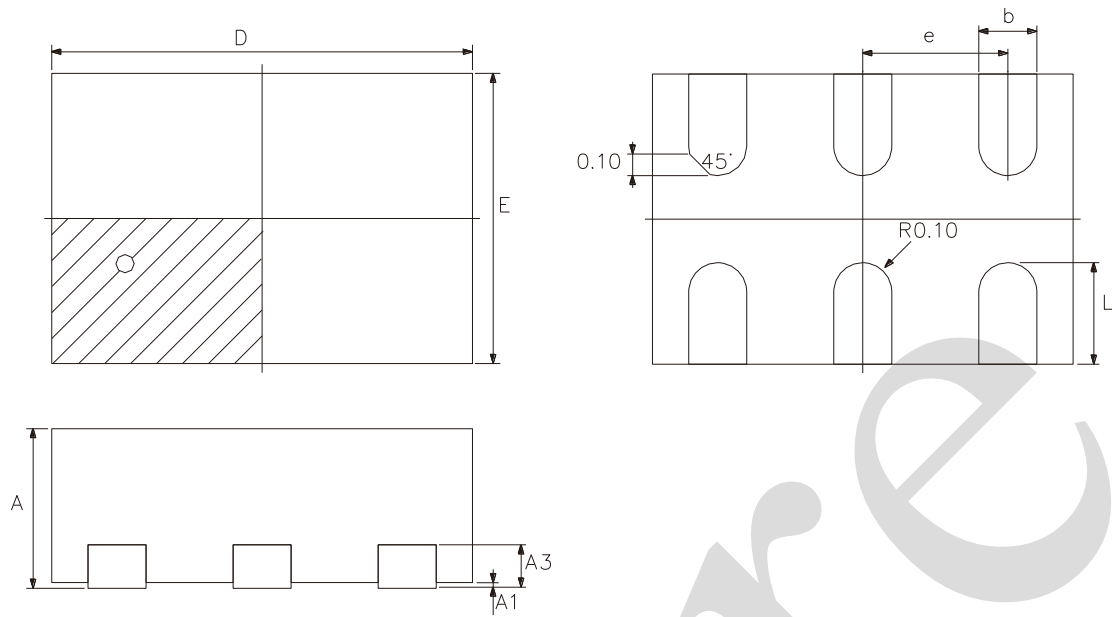
5.1、XSON6(1*1*0.45)-0.35



2025/03/B	Dimensions In Millimeters	
Symbol	Min	Max
A	0.32	0.50
A1	0	0.05
A3	0.1-0.13 REF	
b	0.10	0.21
D	1.00	
E	1.00	
e	0.35	
L	0.25	0.36
L1	0.30	0.41
L2	0.02	0.12



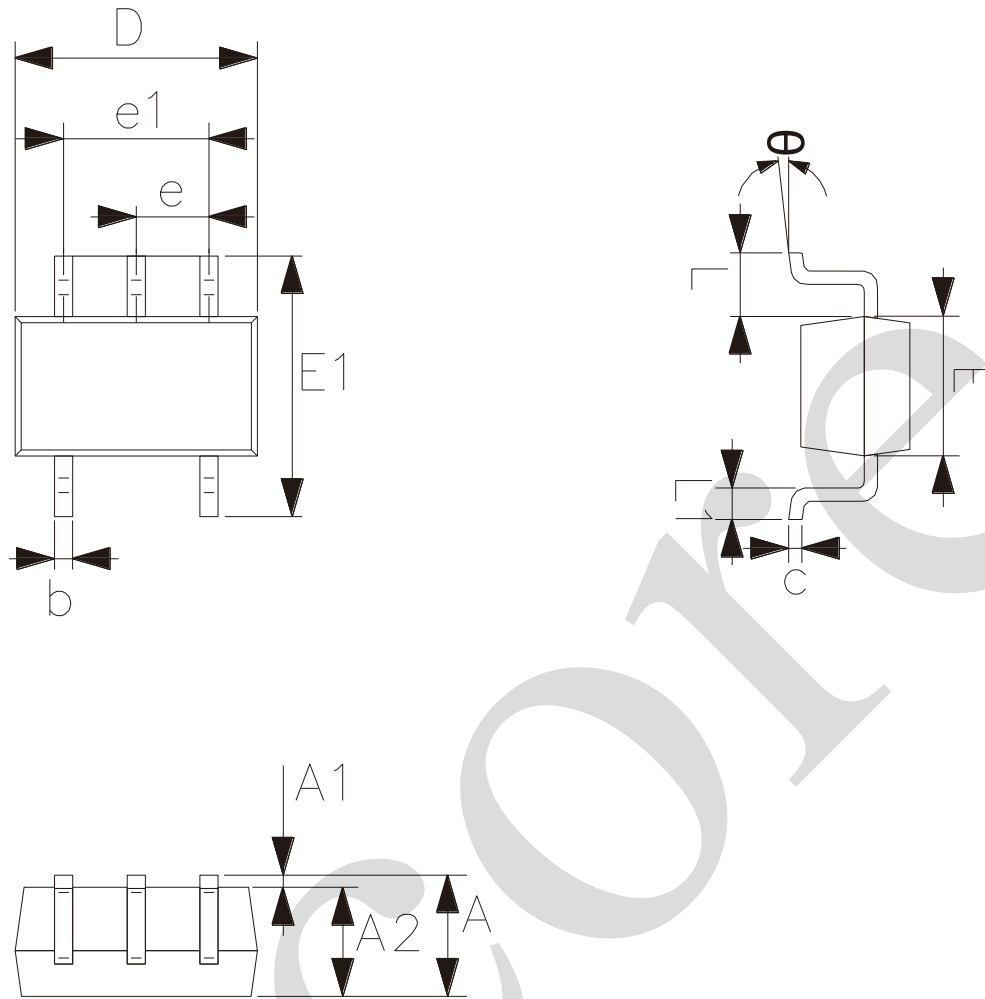
5.2、XSON6(1*1.45*0.55)-0.5



2023/12/A	Dimensions In Millimeters	
Symbol	Min	Max
A	0.51	0.60
A1	0.00	0.05
A3	0.15	
b	0.15	0.25
D	1.45	
E	1.00	
e	0.50	
L	0.25	0.45



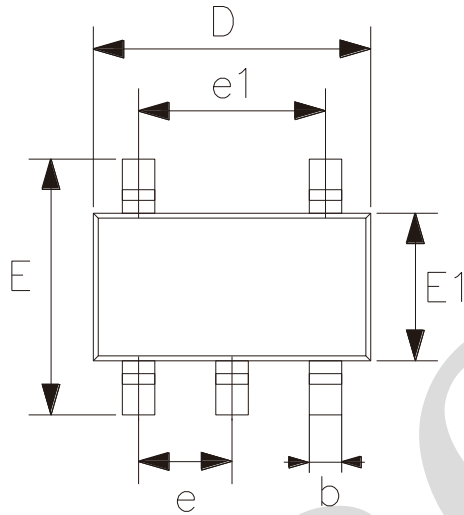
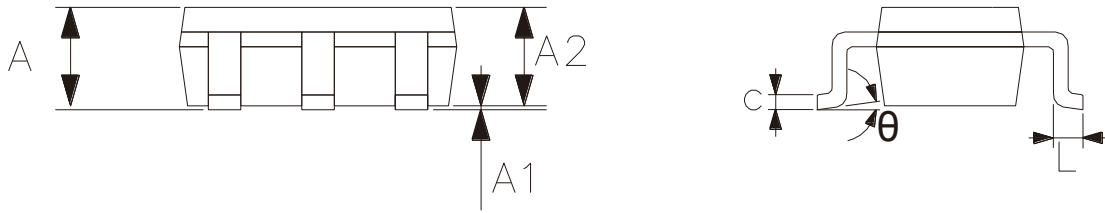
5.3、SOT353



2023/12/A	Dimensions In Millimeters	
Symbol	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°



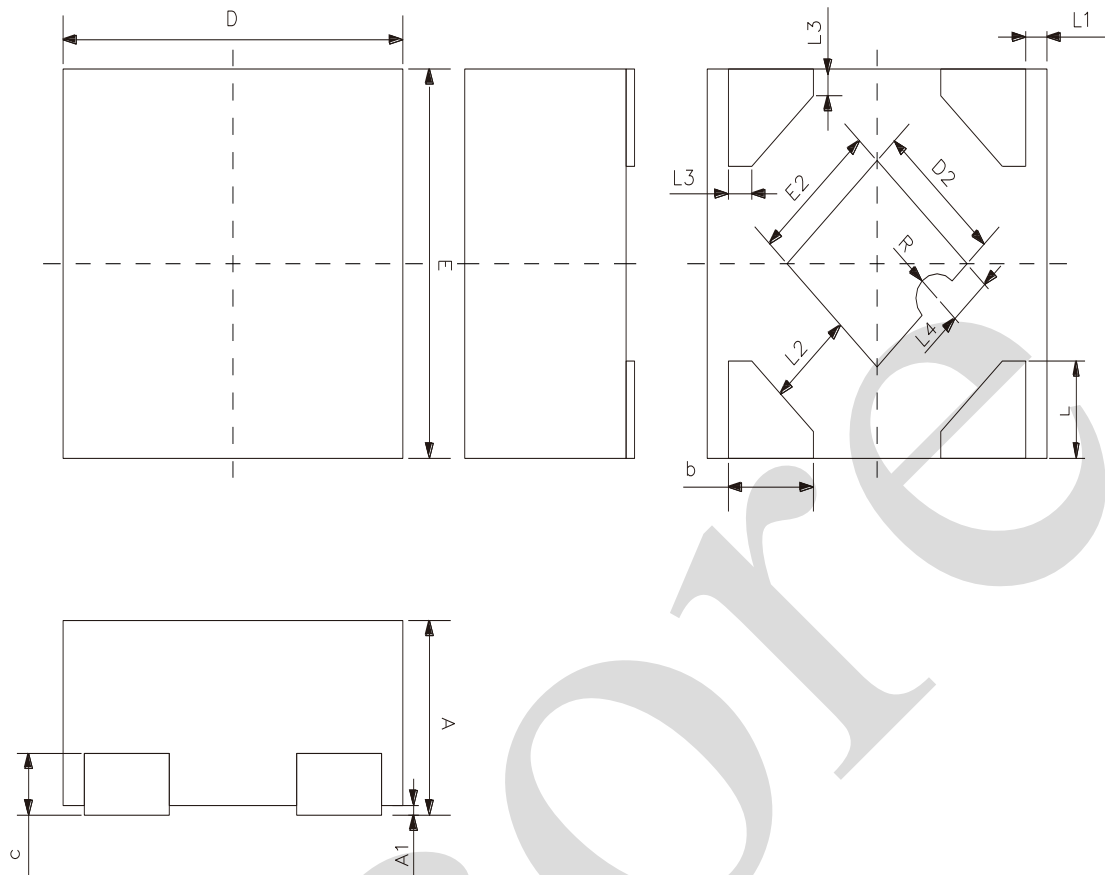
5.4、SOT23-5



2023/12/A	Dimensions In Millimeters	
Symbol	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°



5.5、DFN4



2023/12/A	Dimensions In Millimeters	
Symbol	Min	Max
A	0.37	0.43
A1	0.00	0.05
b	0.15	0.25
c	0.127	
D	0.75	0.85
D2	0.20	0.40
E	0.75	0.85
E2	0.20	0.40
e	0.50	
L	0.15	0.25
L1	0.05	
L2	0.20	
L3	0.055	
L4	0.10	
R	0.05	



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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