



AiP74AUP2G0604

Low Power Inverting Buffer with Open-Drain and Inverter

Product Specification

Specification Revision History:

Version	Date	Description
2025-06-A0	2025-06	New
2025-11-A1	2025-11	Modify the parameters



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1、General Description

The AiP74AUP2G0604 provides a single inverting buffer with open-drain output and a single inverter which accept standard input signals.

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: SOT23-6/SOT363/XSON6

Ordering Information:

Reel packing specifications:

Part number	Packaging form	Marking code	Reel quantity	Boxed reel quantity	Notes
AiP74AUP2G0604 GB236.TR	SOT23-6	AiP IT	3000 PCS/reel	30000 PCS/box	Dimensions of plastic enclosure: 2.9mm×1.6mm Pin spacing: 0.95mm
AiP74AUP2G0604 GC363.TR	SOT363	ITXX	3000 PCS/reel	30000 PCS/box	Dimensions of plastic enclosure: 2.1mm×1.3mm Pin spacing: 0.65mm
AiP74AUP2G0604 ED6.TR	XSON6	IT XX	5000 PCS/reel	25000 PCS/box	Dimensions of plastic enclosure: 1.0mm×1.0mm Pin spacing: 0.35mm
AiP74AUP2G0604 EA6.TR	XSON6	IT XX	5000 PCS/reel	25000 PCS/box	Dimensions of plastic enclosure: 1.45mm×1.0mm Pin spacing: 0.50mm

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

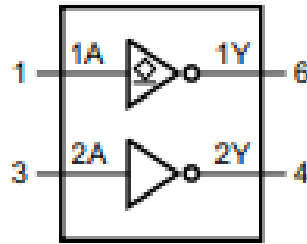


Figure 1. Logic symbol

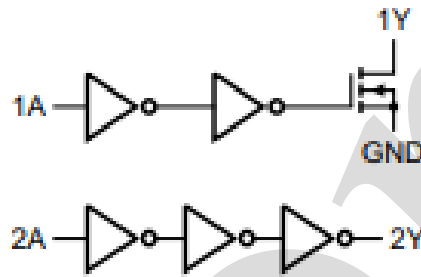
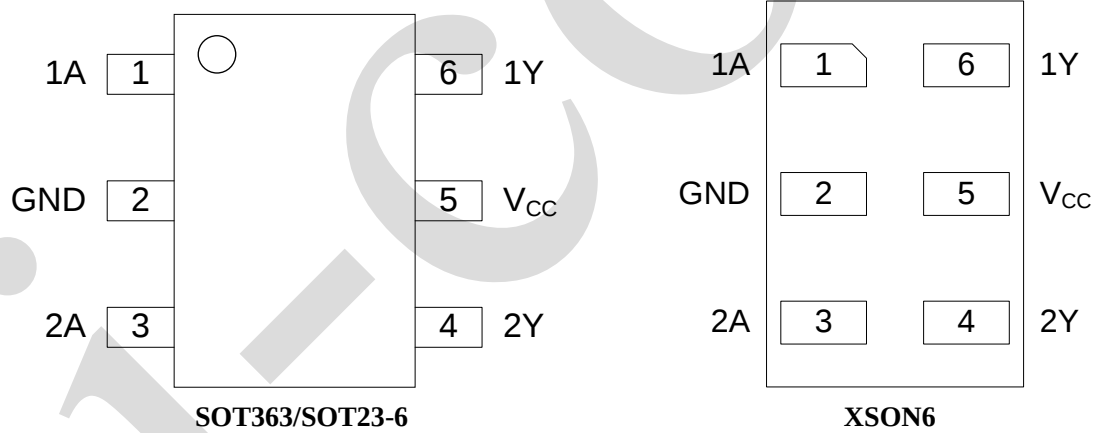


Figure 2. Logic diagram

2.2、Pin Configurations



2.3、Pin Description

Pin No.	Pin Name	Description
1	1A	data input
2	GND	ground (0V)
3	2A	data input
4	2Y	data output
5	V _{CC}	supply voltage
6	1Y	data output



2.4、Function Table

Input	Output
1A	1Y,
L	Z
H	L
2A	2Y
L	H
H	L

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	+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	-50	-	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	℃
total power dissipation	P _{tot}	-	-	250	mW
soldering temperature	T _L	10s	260		℃

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	℃
input transition rise and fall rate	Δt/ΔV	V _{CC} =0.8V to 3.6V	0	-	200	ns/V



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.	Ty	Max.	Unit
HIGH-level input voltage	V _{IH}	V _{CC} =0.8V		0.72	-	-	V
		V _{CC} =0.9V to 1.95V		0.75×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}	2Y; V _I =V _{IH} or V _{IL}	I _O =-20uA; V _{CC} =0.8V to 3.6V	V _{CC} -0.1	-	-	V
			IO=-1.1mA; VCC=1.1V	0.75×V _{CC}	-	-	V
			IO=-1.7mA; VCC=1.4V	1.11	-	-	V
			IO=-1.9mA; VCC=1.65V	1.32	-	-	V
			IO=-2.3mA; VCC=2.3V	2.05	-	-	V
			IO=-3.1mA; VCC=2.3V	1.9	-	-	V
			IO=-2.7mA; VCC=3.0V	2.72	-	-	V
			IO=-4.0mA; VCC=3.0V	2.6	-	-	V
LOW-level output voltage	V _{OL}	1Y,2Y; 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		-	-	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



		1Y output;enabled	-	1.1	-	pF
		2 output	-	1.7	-	pF

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.	Ty	Max.	Unit
HIGH-level input voltage	V_{IH}	$V_{CC}=0.8\text{V}$		0.72	-	-	V
		$V_{CC}=0.9\text{V}$ to 1.95V		$0.75 \times V_{CC}$	-	-	V
		$V_{CC}=2.3\text{V}$ to 2.7V		1.6	-	-	V
		$V_{CC}=3.0\text{V}$ to 3.6V		2.0	-	-	V
LOW-level input voltage	V_{IL}	$V_{CC}=0.8\text{V}$		-	-	$0.30 \times V_{CC}$	V
		$V_{CC}=0.9\text{V}$ to 1.95V		-	-	$0.35 \times V_{CC}$	V
		$V_{CC}=2.3\text{V}$ to 2.7V		-	-	0.7	V
		$V_{CC}=3.0\text{V}$ to 3.6V		-	-	0.9	V
HIGH-level output voltage	V_{OH}	2Y; $V_I=V_{IH}$ or V_{IL}	$I_O=-20\mu\text{A};$ $V_{CC}=0.8\text{V}$ to 3.6V	$V_{CC}-0.1$	-	-	V
			$I_O=-1.1\text{mA}; V_{CC}=1.1\text{V}$	$0.70 \times V_{CC}$	-	-	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}	1Y,2Y; $V_I=V_{IH}$ or V_{IL}	$I_O=20\mu\text{A};$ $V_{CC}=0.8\text{V}$ 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
power-off leakage current	I_{OFF}	V_I or $V_O=0\text{V}$ to $3.6\text{V}; V_{CC}=0\text{V}$		-	-	± 2	μA
additional power-off leakage current	ΔI_{OFF}	V_I or $V_O=0\text{V}$ to $3.6\text{V};$ $V_{CC}=0\text{V}$ to 0.2V		-	-	± 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
additional supply current	ΔI_{CC}	$V_I=V_{CC}-0.6\text{V}; I_O=0\text{A}; V_{CC}=3.3\text{V}$		-	-	50	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.	Ty	Max.	Unit
HIGH-level input voltage	V_{IH}	$V_{CC}=0.8\text{V}$		0.75	-	-	V
		$V_{CC}=0.9\text{V}$ to 1.95V		$0.80 \times V_{CC}$	-	-	V
		$V_{CC}=2.3\text{V}$ to 2.7V		1.6	-	-	V
		$V_{CC}=3.0\text{V}$ to 3.6V		2.0	-	-	V
LOW-level input voltage	V_{IL}	$V_{CC}=0.8\text{V}$		-	-	$0.25 \times V_{CC}$	V
		$V_{CC}=0.9\text{V}$ to 1.95V		-	-	$0.30 \times V_{CC}$	V
		$V_{CC}=2.3\text{V}$ to 2.7V		-	-	0.7	V
		$V_{CC}=3.0\text{V}$ to 3.6V		-	-	0.9	V
HIGH-level output voltage	V_{OH}	2Y; $V_I = V_{IH}$ or V_{IL}	$I_O = -20\mu\text{A}; V_{CC}=0.8\text{V}$ to 3.6V	$V_{CC}-0.11$	-	-	V
			$I_O = -1.1\text{mA}; V_{CC}=1.1\text{V}$	$0.60 \times V_{CC}$	-	-	V
			$I_O = -1.7\text{mA}; V_{CC}=1.4\text{V}$	0.93	-	-	V
			$I_O = -1.9\text{mA}; V_{CC}=1.65\text{V}$	1.17	-	-	V
			$I_O = -2.3\text{mA}; V_{CC}=2.3\text{V}$	1.77	-	-	V
			$I_O = -3.1\text{mA}; V_{CC}=2.3\text{V}$	1.67	-	-	V
			$I_O = -2.7\text{mA}; V_{CC}=3.0\text{V}$	2.40	-	-	V
			$I_O = -4.0\text{mA}; V_{CC}=3.0\text{V}$	2.30	-	-	V
LOW-level output voltage	V_{OL}	1Y, 2Y; $V_I = V_{IH}$ or V_{IL}	$I_O = 20\mu\text{A}; V_{CC}=0.8\text{V}$ to 3.6V	-	-	0.11	V
			$I_O = 1.1\text{mA}; V_{CC}=1.1\text{V}$	-	-	$0.33 \times V_{CC}$	V
			$I_O = 1.7\text{mA}; V_{CC}=1.4\text{V}$	-	-	0.41	V
			$I_O = 1.9\text{mA}; V_{CC}=1.65\text{V}$	-	-	0.39	V
			$I_O = 2.3\text{mA}; V_{CC}=2.3\text{V}$	-	-	0.36	V
			$I_O = 3.1\text{mA}; V_{CC}=2.3\text{V}$	-	-	0.50	V
			$I_O = 2.7\text{mA}; V_{CC}=3.0\text{V}$	-	-	0.36	V
			$I_O = 4.0\text{mA}; V_{CC}=3.0\text{V}$	-	-	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
power-off leakage current	I_{OFF}	V_I or $V_O = 0\text{V}$ to $3.6\text{V}; V_{CC}=0\text{V}$		-	-	± 4	μA
additional power-off leakage current	ΔI_{OFF}	V_I or $V_O = 0\text{V}$ to $3.6\text{V}; V_{CC}=0\text{V}$ to 0.2V		-	-	± 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
additional supply current	ΔI_{CC}	$V_I = V_{CC}-0.6\text{V}; I_O = 0\text{A}; V_{CC}=3.3\text{V}$		-	-	75	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.	Max.	Unit
propagation delay	t_{pd}	1A to 1Y or 2A to 2Y; see Figure 4	$C_L=5\text{pF}$			
			$V_{CC}=0.8\text{V}$	-	14.4	- ns
			$V_{CC}=1.1\text{V to }1.3\text{V}$	2.3	4.7	10.3 ns
			$V_{CC}=1.4\text{V to }1.6\text{V}$	1.8	3.4	6.4 ns
			$V_{CC}=1.65\text{V to }1.95\text{V}$	1.5	2.9	5.0 ns
			$V_{CC}=2.3\text{V to }2.7\text{V}$	1.2	2.3	3.9 ns
			$V_{CC}=3.0\text{V to }3.6\text{V}$	1.1	2.2	3.3 ns
			$C_L=10\text{pF}$			
			$V_{CC}=0.8\text{V}$	-	17.7	- ns
			$V_{CC}=1.1\text{V to }1.3\text{V}$	2.7	5.7	12.2 ns
			$V_{CC}=1.4\text{V to }1.6\text{V}$	2.2	4.1	7.5 ns
			$V_{CC}=1.65\text{V to }1.95\text{V}$	1.9	3.6	5.9 ns
			$V_{CC}=2.3\text{V to }2.7\text{V}$	1.7	2.9	4.6 ns
			$V_{CC}=3.0\text{V to }3.6\text{V}$	1.6	3.0	4.6 ns
			$C_L=15\text{pF}$			
			$V_{CC}=0.8\text{V}$	-	21.1	- ns
			$V_{CC}=1.1\text{V to }1.3\text{V}$	3.2	6.6	13.0 ns
			$V_{CC}=1.4\text{V to }1.6\text{V}$	2.6	4.7	8.6 ns
			$V_{CC}=1.65\text{V to }1.95\text{V}$	2.3	4.3	6.7 ns
			$V_{CC}=2.3\text{V to }2.7\text{V}$	2.1	3.4	5.1 ns
			$V_{CC}=3.0\text{V to }3.6\text{V}$	2.0	3.6	6.0 ns
			$C_L=30\text{pF}$			
			$V_{CC}=0.8\text{V}$	-	30.7	- ns
			$V_{CC}=1.1\text{V to }1.3\text{V}$	4.4	9.1	16.5 ns
			$V_{CC}=1.4\text{V to }1.6\text{V}$	3.6	6.6	10.8 ns
power dissipation capacitance	C_{PD}	1A to 1Y; $f=1\text{MHz}$; $V_I=\text{GND to }V_{CC}$	$V_{CC}=0.8\text{V}$	-	0.5	- pF
			$V_{CC}=1.1\text{V to }1.3\text{V}$	-	0.6	- pF
			$V_{CC}=1.4\text{V to }1.6\text{V}$	-	0.7	- pF
			$V_{CC}=1.65\text{V to }1.95\text{V}$	-	0.7	- pF
			$V_{CC}=2.3\text{V to }2.7\text{V}$	-	1.0	- pF
			$V_{CC}=3.0\text{V to }3.6\text{V}$	-	1.2	- pF
		2A to 2Y; $f=1\text{MHz}$; $V_I=\text{GND to }V_{CC}$	$V_{CC}=0.8\text{V}$	-	2.5	- pF
			$V_{CC}=1.1\text{V to }1.3\text{V}$	-	2.7	- pF
			$V_{CC}=1.4\text{V to }1.6\text{V}$	-	2.8	- pF
			$V_{CC}=1.65\text{V to }1.95\text{V}$	-	3.0	- pF
			$V_{CC}=2.3\text{V to }2.7\text{V}$	-	3.5	- pF
			$V_{CC}=3.0\text{V to }3.6\text{V}$	-	4.0	- pF



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 _{pd}	1A to 1Y or 2A to 2Y; see Figure 4	C _L =5pF				
			V _{CC} =1.1V to 1.3V	2.0	-	11.4	ns
			V _{CC} =1.4V to 1.6V	1.5	-	7.4	ns
			V _{CC} =1.65V to 1.95V	1.2	-	5.9	ns
			V _{CC} =2.3V to 2.7V	1.0	-	4.5	ns
			V _{CC} =3.0V to 3.6V	0.8	-	3.9	ns
			C _L =10pF				
			V _{CC} =1.1V to 1.3V	2.5	-	13.7	ns
			V _{CC} =1.4V to 1.6V	2.0	-	8.7	ns
			V _{CC} =1.65V to 1.95V	1.7	-	7.0	ns
			V _{CC} =2.3V to 2.7V	1.4	-	5.4	ns
			V _{CC} =3.0V to 3.6V	1.2	-	4.9	ns
			C _L =15pF				
			V _{CC} =1.1V to 1.3V	2.9	-	15.8	ns
			V _{CC} =1.4V to 1.6V	2.3	-	10.0	ns
			V _{CC} =1.65V to 1.95V	2.1	-	8.0	ns
			V _{CC} =2.3V to 2.7V	1.7	-	6.1	ns
			V _{CC} =3.0V to 3.6V	1.5	-	6.5	ns
			C _L =30pF				
			V _{CC} =1.1V to 1.3V	3.9	-	19.3	ns
			V _{CC} =1.4V to 1.6V	3.2	-	12.9	ns
			V _{CC} =1.65V to 1.95V	2.9	-	11.0	ns
			V _{CC} =2.3V to 2.7V	2.6	-	7.8	ns
			V _{CC} =3.0V to 3.6V	2.5	-	10.8	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 _{pd}	1A to 1Y or 2A to 2Y; see Figure 4	C _L =5pF				
			V _{CC} =1.1V to 1.3V	2.0	-	12.6	ns
			V _{CC} =1.4V to 1.6V	1.5	-	8.2	ns
			V _{CC} =1.65V to 1.95V	1.2	-	6.5	ns
			V _{CC} =2.3V to 2.7V	1.0	-	5.0	ns
			V _{CC} =3.0V to 3.6V	0.8	-	4.3	ns
			C _L =10pF				
			V _{CC} =1.1V to 1.3V	2.5	-	15.1	ns
			V _{CC} =1.4V to 1.6V	2.0	-	9.6	ns
			V _{CC} =1.65V to 1.95V	1.7	-	7.7	ns
			V _{CC} =2.3V to 2.7V	1.4	-	6.0	ns
			V _{CC} =3.0V to 3.6V	1.2	-	5.4	ns
			C _L =15pF				
			V _{CC} =1.1V to 1.3V	2.9	-	17.4	ns
			V _{CC} =1.4V to 1.6V	2.3	-	11.0	ns
			V _{CC} =1.65V to 1.95V	2.1	-	8.8	ns
			V _{CC} =2.3V to 2.7V	1.7	-	6.8	ns
			V _{CC} =3.0V to 3.6V	1.5	-	7.2	ns
			C _L =30pF				
			V _{CC} =1.1V to 1.3V	3.9	-	21.3	ns
			V _{CC} =1.4V to 1.6V	3.2	-	14.2	ns
			V _{CC} =1.65V to 1.95V	2.9	-	12.1	ns
			V _{CC} =2.3V to 2.7V	2.6	-	8.6	ns
			V _{CC} =3.0V to 3.6V	2.5	-	11.9	ns



4、Testing Circuit

4.1、AC Testing Circuit

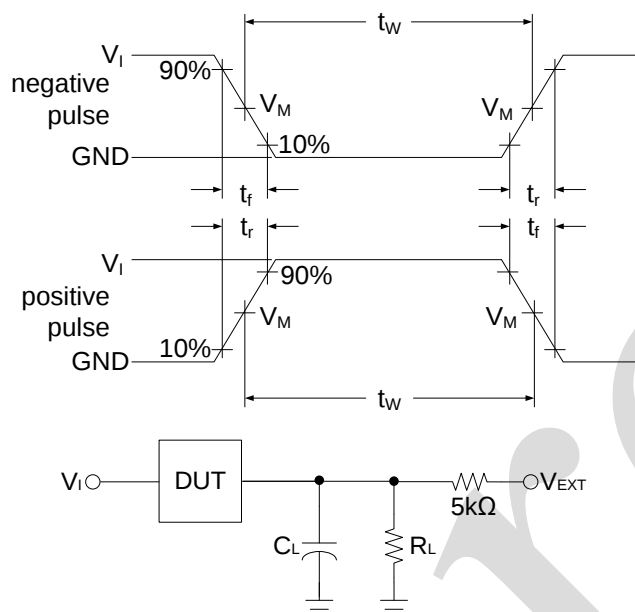


Figure 3. Test circuit for measuring switching times

C_L includes probe and jig capacitance.

R_L =Load resistance.

4.2、AC Testing Waveforms

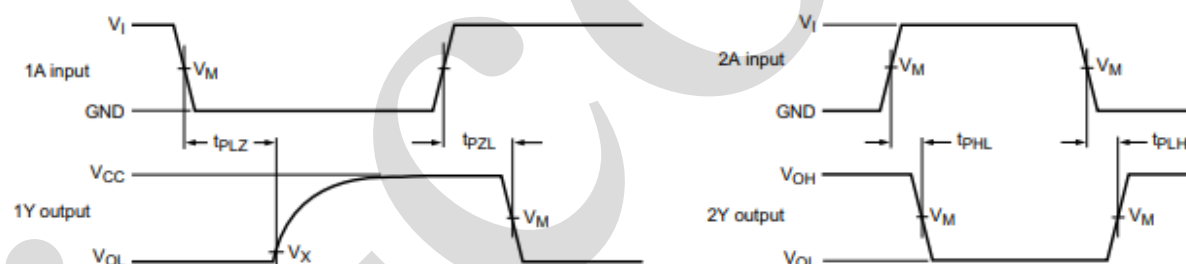


Figure 4. The data input 1A to output 1Y and input 2A to output 2Y propagation delays

4.3、Measurement Points

Supply voltage	Output		Input		
V_{CC}	V_M	V_X	V_M	V_I	$t_r=t_f$
0.8V to 1.6V	$0.5 \times V_{CC}$	$V_{OL}+0.1V$	$0.5 \times V_{CC}$	V_{CC}	$\leq 3.0ns$
1.65V to 2.7V	$0.5 \times V_{CC}$	$V_{OL}+0.15V$	$0.5 \times V_{CC}$	V_{CC}	$\leq 3.0ns$
3.0V to 3.6V	$0.5 \times V_{CC}$	$V_{OL}+0.3V$	$0.5 \times V_{CC}$	V_{CC}	$\leq 3.0ns$

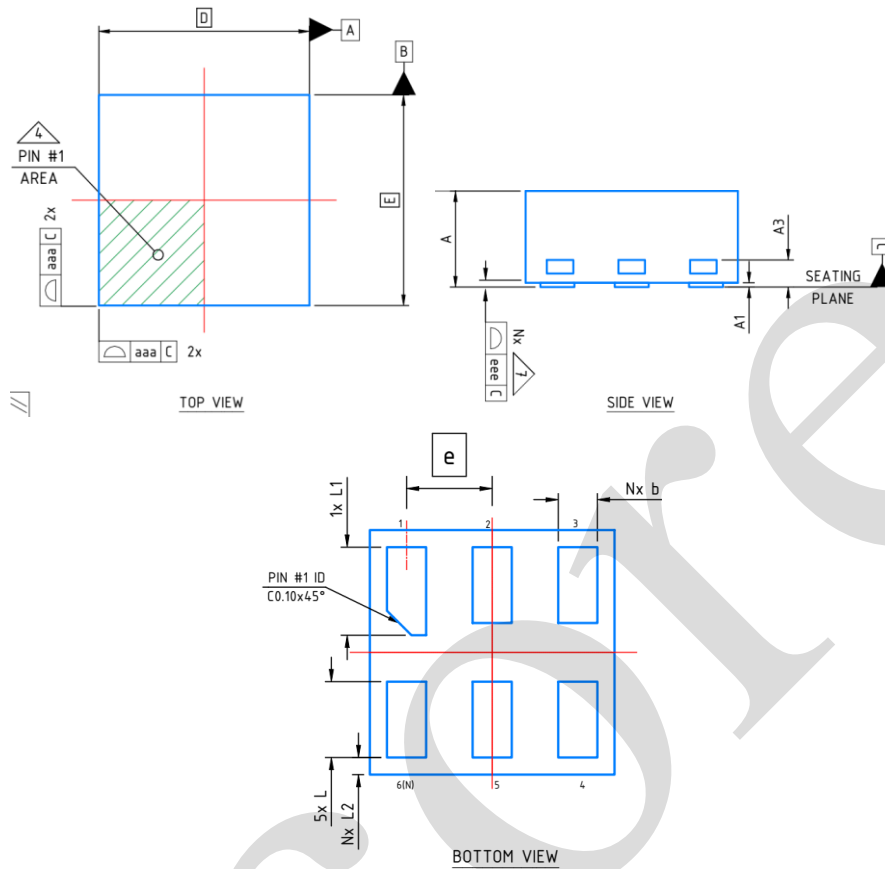
4.4、Test Data

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



5、Package Information

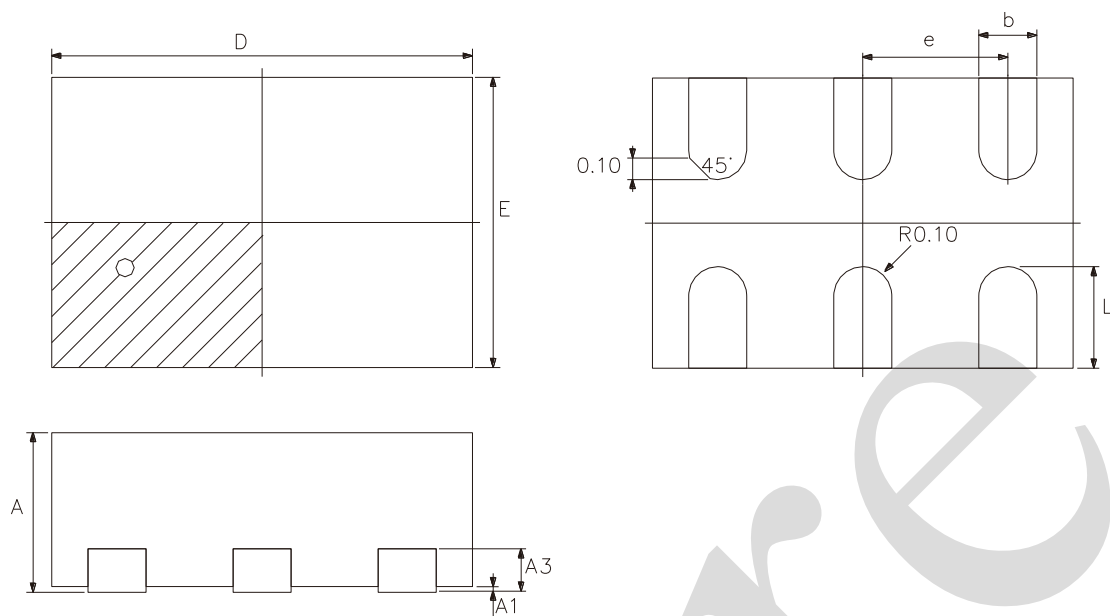
5.1、XSON6(1*1*0.45)-0.35



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



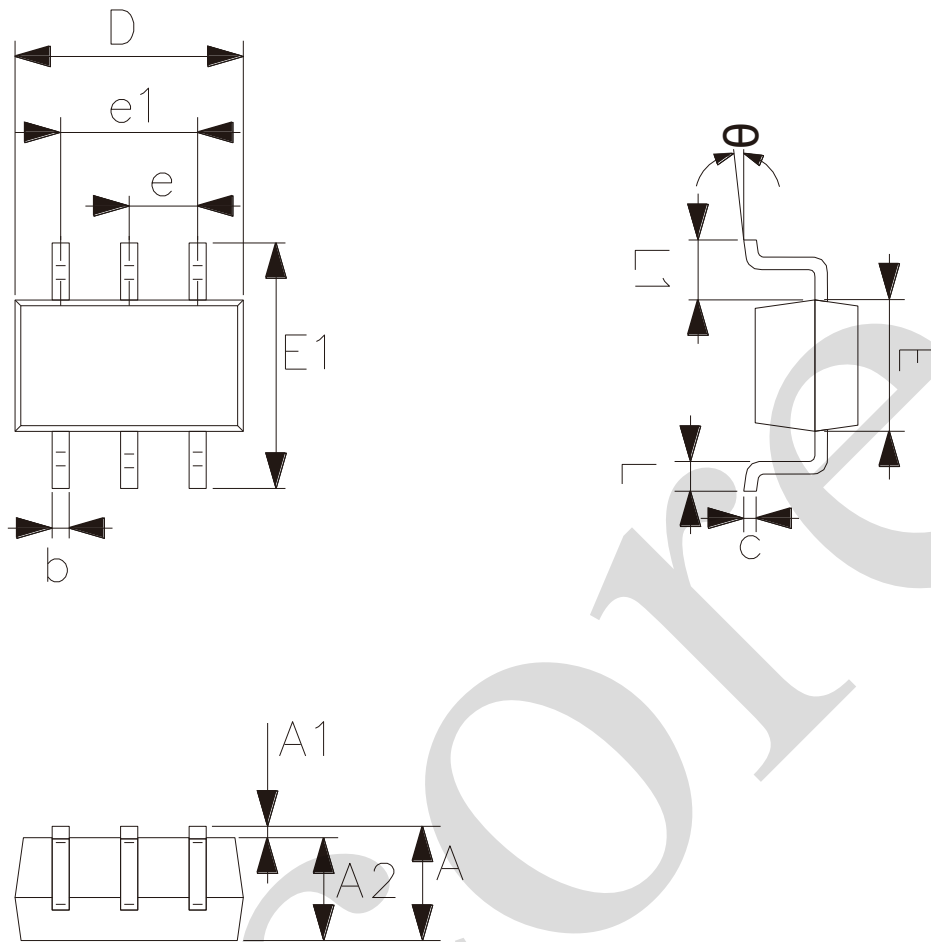
5.2、XSON6(1*1.45*0.55)-0.5



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



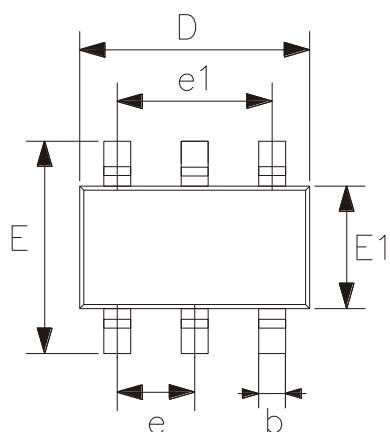
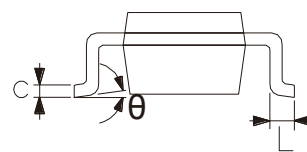
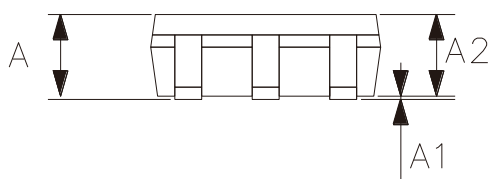
5.3、SOT363



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
E1	2.15	2.45
E	1.15	1.35
e	0.65	
e1	1.20	1.40
L	0.26	0.46
L1	0.525	
θ	0°	8°



5.4、SOT23-6



2023/12/A	Dimensions In Millimeters	
Symbol	Min.	Max.
A	—	1.25
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°



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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