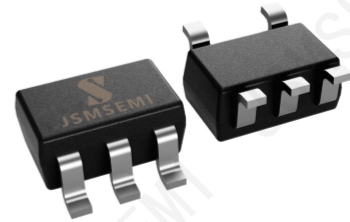


1、General Description

The 74AUP1T34 provides a single buffer with two separate supply voltages. Input A is designed to track $V_{CC(A)}$. Output Y is designed to track $V_{CC(Y)}$. Both, $V_{CC(A)}$ and $V_{CC(Y)}$ accepts any supply voltage from 1.1V to 3.6V. This feature allows universal low voltage interfacing between any of the 1.2V, 1.5V, 1.8V, 2.5V and 3.3V voltage nodes.



Features:

- Wide supply voltage range:
 $V_{CC(A)}$: 1.1V to 3.6V
 $V_{CC(Y)}$: 1.1V to 3.6V
- Low static power consumption; $I_{CC}=1\mu A$ (maximum)
- Inputs accept voltages up to 3.6V
- I_{OFF} circuitry provides partial Power-down mode operation
- Specified from $-40^{\circ}C$ to $+125^{\circ}C$
- Packaging information: SOT23-5/SOT353/TSSOP-5-1.3mm

2、Block Diagram And Pin Description2

.1、Block Diagram

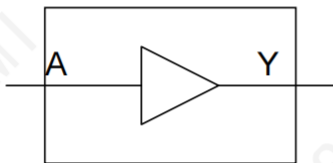


Figure 1. Logic symbol



Figure 2. Logic diagram

2.2、Pin Configurations

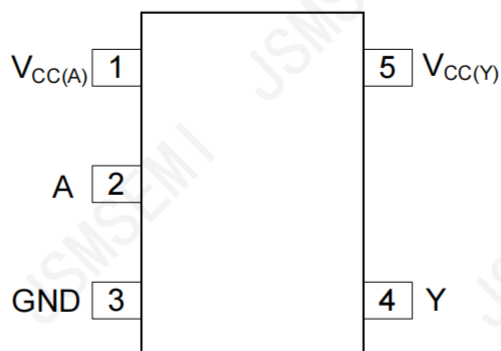


Figure 3. Pin Configuration

2.3、Pin Description

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

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

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

Characteristic	Symbol	Conditions	Min.	Max.	Unit
supply voltage A	$V_{CC(A)}$	-	-0.5	+4.6	V
supply voltage Y	$V_{CC(Y)}$	-	-0.5	+4.6	V
input clamping current	I_{IK}	$V_I < 0\text{V}$	-50	-	mA
input voltage	V_I	-	-0.5	+4.6	V
output clamping current	I_{OK}	$V_O < 0\text{V}$	-50	-	mA
output voltage	V_O	active mode and power-down mode	-0.5	+4.6	V
output current	I_O	$V_O=0\text{V}$ to $V_{CC(Y)}$	-	± 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	-	260		$^{\circ}\text{C}$

3.2、Recommended Operating Conditions

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
supply voltage A	$V_{CC(A)}$	-	1.1	-	3.6	V
supply voltage Y	$V_{CC(Y)}$	-	1.1	-	3.6	V
input voltage	V_I	-	0	-	3.6	V
output voltage	V_O	-	0	-	$V_{CC(Y)}$	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}	$V_{CC(A)}=1.1\text{V to }1.95\text{V};$ $V_{CC(Y)}=1.1\text{V to }3.6\text{V}$		$0.65 \times V_{CC(A)}$	-	-	V
		$V_{CC(A)}=2.3\text{V to }2.7\text{V};$ $V_{CC(Y)}=1.1\text{V to }3.6\text{V}$		1.6	-	-	V
		$V_{CC(A)}=3.0\text{V to }3.6\text{V};$ $V_{CC(Y)}=1.1\text{V to }3.6\text{V}$		2.0	-	-	V
LOW-level input voltage	V_{IL}	$V_{CC(A)}=1.1\text{V to }1.95\text{V};$ $V_{CC(Y)}=1.1\text{V to }3.6\text{V}$		-	-	$0.35 \times V_{CC(A)}$	V
		$V_{CC(A)}=2.3\text{V to }2.7\text{V};$ $V_{CC(Y)}=1.1\text{V to }3.6\text{V}$		-	-	0.7	V
		$V_{CC(A)}=3.0\text{V to }3.6\text{V};$ $V_{CC(Y)}=1.1\text{V to }3.6\text{V}$		-	-	0.9	V
HIGH-level output voltage	V_{OH}	$V_I=V_{IH}$	$I_O=-20\mu\text{A};$ $V_{CC(A)}=V_{CC(Y)}=1.1\text{V to }3.6\text{V}$	$V_{CC(Y)}-0.1$	-	-	V
			$I_O=-1.1\text{mA};$ $V_{CC(A)}=V_{CC(Y)}=1.1\text{V}$	$0.75 \times V_{CC(Y)}$	-	-	V
			$I_O=-1.7\text{mA};$ $V_{CC(A)}=V_{CC(Y)}=1.4\text{V}$	1.11	-	-	V
			$I_O=-1.9\text{mA};$ $V_{CC(A)}=V_{CC(Y)}=1.65\text{V}$	1.32	-	-	V
			$I_O=-2.3\text{mA};$ $V_{CC(A)}=V_{CC(Y)}=2.3\text{V}$	2.05	-	-	V
			$I_O=-3.1\text{mA};$ $V_{CC(A)}=V_{CC(Y)}=2.3\text{V}$	1.9	-	-	V
			$I_O=-2.7\text{mA};$ $V_{CC(A)}=V_{CC(Y)}=3.0\text{V}$	2.72	-	-	V
			$I_O=-4.0\text{mA};$ $V_{CC(A)}=V_{CC(Y)}=3.0\text{V}$	2.6	-	-	V
LOW-level output voltage	V_{OL}	$V_I=V_{IL}$	$I_O=20\mu\text{A};$ $V_{CC(A)}=V_{CC(Y)}=1.1\text{V to }3.6\text{V}$	-	-	0.1	V
			$I_O=1.1\text{mA};$ $V_{CC(A)}=V_{CC(Y)}=1.1\text{V}$	-	-	$0.3 \times V_{CC(Y)}$	V
			$I_O=1.7\text{mA};$ $V_{CC(A)}=V_{CC(Y)}=1.4\text{V}$	-	-	0.31	V
			$I_O=1.9\text{mA};$ $V_{CC(A)}=V_{CC(Y)}=1.65\text{V}$	-	-	0.31	V
			$I_O=2.3\text{mA};$ $V_{CC(A)}=V_{CC(Y)}=2.3\text{V}$	-	-	0.31	V
			$I_O=3.1\text{mA};$ $V_{CC(A)}=V_{CC(Y)}=2.3\text{V}$	-	-	0.44	V
			$I_O=2.7\text{mA};$ $V_{CC(A)}=V_{CC(Y)}=3.0\text{V}$	-	-	0.31	V

			$I_O=4.0\text{mA};$ $V_{CC(A)}=V_{CC(Y)}=3.0\text{V}$	-	-	0.44	V
input leakage current	I_I	$V_I=0\text{V to } 3.6\text{V};$ $V_{CC(A)}=V_{CC(Y)}=1.1\text{V to } 3.6\text{V}$		-	-	± 1	μA
power-off leakage current	I_{OFF}	A input; $V_I=0\text{V to } 3.6\text{V}; V_{CC(A)}=0\text{V};$ $V_{CC(Y)}=0\text{V to } 3.6\text{V}$		-	-	± 1	μA
		Y output; $V_O=0\text{V to } 3.6\text{V}; V_I=0\text{V or } 3.6\text{V};$ $V_{CC(Y)}=0\text{V}; V_{CC(A)}=0\text{V to } 3.6\text{V}$		-	-	± 1	μA
additional power-off leakage current	ΔI_{OFF}	A input; $V_I=0\text{V to } 3.6\text{V}; V_{CC(A)}=0\text{V to } 0.2\text{V};$ $V_{CC(Y)}=0\text{V to } 3.6\text{V}$		-	-	± 1	μA
		Y output; $V_O=0\text{V to } 3.6\text{V};$ $V_I=0\text{V or } 3.6\text{V}; V_{CC(Y)}=0\text{V to } 0.2\text{V};$ $V_{CC(A)}=0\text{V to } 3.6\text{V}$		-	-	± 1	μA
supply current	I_{CC}	port A; $V_I=\text{GND}$ or $V_{CC(A)};$ $I_O=0\text{A}$	$V_{CC(A)}=V_{CC(Y)}=1.1\text{V to } 3.6\text{V}$	-	-	1	μA
			$V_{CC(A)}=3.6\text{V}; V_{CC(Y)}=0\text{V}$	-	-	1	μA
			$V_{CC(A)}=0\text{V}; V_{CC(Y)}=3.6\text{V}$	-	0.0	-	μA
		port Y; $V_I=\text{GND}$ or $V_{CC(A)};$ $I_O=0\text{A}$	$V_{CC(A)}=V_{CC(Y)}=1.1\text{V to } 3.6\text{V}$	-	-	1	μA
			$V_{CC(A)}=3.6\text{V}; V_{CC(Y)}=0\text{V}$	-	0.0	-	μA
			$V_{CC(A)}=0\text{V}; V_{CC(Y)}=3.6\text{V}$	-	-	1	μA
additional supply current	ΔI_{CC}	A input; $V_{CC(A)}=3.3\text{V}; V_{CC(Y)}=0\text{V to } 3.6\text{V};$ $V_I=V_{CC(A)}-0.6\text{V}$		-	-	40	μA
input capacitance	C_I	A input; $V_{CC(A)}=V_{CC(Y)}=0\text{V to } 3.6\text{V};$ $V_I=\text{GND or } V_{CC(A)}$		-	1.0	-	pF
output capacitance	C_O	Y output; $V_O=\text{GND}; V_{CC(Y)}=0\text{V};$ $V_{CC(A)}=0\text{V to } 3.6\text{V}$		-	1.8	-	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.	Typ.	Max.	Unit
HIGH-level input voltage	V_{IH}	$V_{CC(A)}=1.1\text{V to } 1.95\text{V};$ $V_{CC(Y)}=1.1\text{V to } 3.6\text{V}$	$0.65 \times V_{CC(A)}$	-	-	V
		$V_{CC(A)}=2.3\text{V to } 2.7\text{V};$ $V_{CC(Y)}=1.1\text{V to } 3.6\text{V}$	1.6	-	-	V
		$V_{CC(A)}=3.0\text{V to } 3.6\text{V};$ $V_{CC(Y)}=1.1\text{V to } 3.6\text{V}$	2.0	-	-	V
LOW-level input voltage	V_{IL}	$V_{CC(A)}=1.1\text{V to } 1.95\text{V};$ $V_{CC(Y)}=1.1\text{V to } 3.6\text{V}$	-	-	$0.35 \times V_{CC(A)}$	V
		$V_{CC(A)}=2.3\text{V to } 2.7\text{V};$ $V_{CC(Y)}=1.1\text{V to } 3.6\text{V}$	-	-	0.7	V
		$V_{CC(A)}=3.0\text{V to } 3.6\text{V};$ $V_{CC(Y)}=1.1\text{V to } 3.6\text{V}$	-	-	0.9	V
HIGH -level output voltage	V_{OH}	$V_I=V_{IH}$	$I_O=-20\mu\text{A};$ $V_{CC(A)}=V_{CC(Y)}=1.1\text{V to } 3.6\text{V}$	$V_{CC(Y)}-0.1$	-	V
			$I_O=-1.1\text{mA};$ $V_{CC(A)}=V_{CC(Y)}=1.1\text{V}$	$0.7 \times V_{CC(Y)}$	-	V

			$I_O = -1.7\text{mA}; V_{CC(A)} = V_{CC(Y)} = 1.4\text{V}$	1.03	-	-	V
			$I_O = -1.9\text{mA}; V_{CC(A)} = V_{CC(Y)} = 1.65\text{V}$	1.30	-	-	V
			$I_O = -2.3\text{mA}; V_{CC(A)} = V_{CC(Y)} = 2.3\text{V}$	1.97	-	-	V
			$I_O = -3.1\text{mA}; V_{CC(A)} = V_{CC(Y)} = 2.3\text{V}$	1.85	-	-	V
			$I_O = -2.7\text{mA}; V_{CC(A)} = V_{CC(Y)} = 3.0\text{V}$	2.67	-	-	V
			$I_O = -4.0\text{mA}; V_{CC(A)} = V_{CC(Y)} = 3.0\text{V}$	2.55	-	-	V
LOW-level output voltage	V_{OL}	$V_I = V_{IL}$	$I_O = 20\mu\text{A}; V_{CC(A)} = V_{CC(Y)} = 1.1\text{V to } 3.6\text{V}$	-	-	0.1	V
			$I_O = 1.1\text{mA}; V_{CC(A)} = V_{CC(Y)} = 1.1\text{V}$	-	-	$0.3 \times V_{CC(Y)}$	V
			$I_O = 1.7\text{mA}; V_{CC(A)} = V_{CC(Y)} = 1.4\text{V}$	-	-	0.37	V
			$I_O = 1.9\text{mA}; V_{CC(A)} = V_{CC(Y)} = 1.65\text{V}$	-	-	0.35	V
			$I_O = 2.3\text{mA}; V_{CC(A)} = V_{CC(Y)} = 2.3\text{V}$	-	-	0.33	V
			$I_O = 3.1\text{mA}; V_{CC(A)} = V_{CC(Y)} = 2.3\text{V}$	-	-	0.45	V
			$I_O = 2.7\text{mA}; V_{CC(A)} = V_{CC(Y)} = 3.0\text{V}$	-	-	0.33	V
			$I_O = 4.0\text{mA}; V_{CC(A)} = V_{CC(Y)} = 3.0\text{V}$	-	-	0.45	V
input leakage current	I_I	$V_I = 0\text{V to } 3.6\text{V}; V_{CC(A)} = V_{CC(Y)} = 1.1\text{V to } 3.6\text{V}$		-	-	± 1	μA
power-off leakage current	I_{OFF}	A input; $V_I = 0\text{V to } 3.6\text{V}; V_{CC(A)} = 0\text{V}; V_{CC(Y)} = 0\text{V to } 3.6\text{V}$		-	-	± 1	μA
		Y output; $V_O = 0\text{V to } 3.6\text{V}; V_I = 0\text{V or } 3.6\text{V}; V_{CC(Y)} = 0\text{V}; V_{CC(A)} = 0\text{V to } 3.6\text{V}$		-	-	± 1	μA
additional power-off leakage current	ΔI_{OFF}	A input; $V_I = 0\text{V to } 3.6\text{V}; V_{CC(A)} = 0\text{V to } 0.2\text{V}; V_{CC(Y)} = 0\text{V to } 3.6\text{V}$		-	-	± 1	μA
		Y output; $V_O = 0\text{V to } 3.6\text{V}; V_I = 0\text{V or } 3.6\text{V}; V_{CC(Y)} = 0\text{V to } 0.2\text{V}; V_{CC(A)} = 0\text{V to } 3.6\text{V}$		-	-	± 1	μA
supply current	I_{CC}	port A; $V_I = \text{GND or } V_{CC(A)}; I_O = 0\text{A}$	$V_{CC(A)} = V_{CC(Y)} = 1.1\text{V to } 3.6\text{V}$	-	-	1	μA
			$V_{CC(A)} = 3.6\text{V}; V_{CC(Y)} = 0\text{V}$	-	-	1	μA
			$V_{CC(A)} = 0\text{V}; V_{CC(Y)} = 3.6\text{V}$	-	0.0	-	μA
		port Y; $V_I = \text{GND or } V_{CC(A)}; I_O = 0\text{A}$	$V_{CC(A)} = V_{CC(Y)} = 1.1\text{V to } 3.6\text{V}$	-	-	1	μA
			$V_{CC(A)} = 3.6\text{V}; V_{CC(Y)} = 0\text{V}$	-	0.0	-	μA
			$V_{CC(A)} = 0\text{V}; V_{CC(Y)} = 3.6\text{V}$	-	-	1	μA
additional supply current	ΔI_{CC}	A input; $V_{CC(A)} = 3.3\text{V}; V_{CC(Y)} = 0\text{V to } 3.6\text{V}; V_I = V_{CC(A)} - 0.6\text{V}$		-	-	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.	Typ.	Max.	Unit
HIGH-level input voltage	V _{IH}	V _{CC(A)} =1.1V to 1.95V; V _{CC(Y)} =1.1V to 3.6V		0.7× V _{CC(A)}	-	-	V
		V _{CC(A)} =2.3V to 2.7V; V _{CC(Y)} =1.1V to 3.6V		1.6	-	-	V
		V _{CC(A)} =3.0V to 3.6V; V _{CC(Y)} =1.1V to 3.6V		2.0	-	-	V
LOW-level input voltage	V _{IL}	V _{CC(A)} =1.1V to 1.95V; V _{CC(Y)} =1.1V to 3.6V		-	-	0.3× V _{CC(A)}	V
		V _{CC(A)} =2.3V to 2.7V; V _{CC(Y)} =1.1V to 3.6V		-	-	0.7	V
		V _{CC(A)} =3.0V to 3.6V; V _{CC(Y)} =1.1V to 3.6V		-	-	0.9	V
HIGH -level output voltage	V _{OH}	V _I =V _{IH}	I _O =-20uA; V _{CC(A)} =V _{CC(Y)} =1.1V to 3.6V	V _{CC(Y)} - 0.11	-	-	V
			I _O =-1.1mA; V _{CC(A)} =V _{CC(Y)} =1.1V	0.6× V _{CC(Y)}	-	-	V
			I _O =-1.7mA; V _{CC(A)} =V _{CC(Y)} =1.4V	0.93	-	-	V
			I _O =-1.9mA; V _{CC(A)} =V _{CC(Y)} =1.65V	1.17	-	-	V
			I _O =-2.3mA; V _{CC(A)} =V _{CC(Y)} =2.3V	1.77	-	-	V
			I _O =-3.1mA; V _{CC(A)} =V _{CC(Y)} =2.3V	1.67	-	-	V
			I _O =-2.7mA; V _{CC(A)} =V _{CC(Y)} =3.0V	2.40	-	-	V
			I _O =-4.0mA; V _{CC(A)} =V _{CC(Y)} =3.0V	2.30	-	-	V
LOW-level output voltage	V _{OL}	V _I =V _{IL}	I _O =20uA; V _{CC(A)} =V _{CC(Y)} =1.1V to 3.6V	-	-	0.11	V
			I _O =1.1mA; V _{CC(A)} =V _{CC(Y)} =1.1V	-	-	0.33× V _{CC(Y)}	V
			I _O =1.7mA; V _{CC(A)} =V _{CC(Y)} =1.4V	-	-	0.41	V
			I _O =1.9mA; V _{CC(A)} =V _{CC(Y)} =1.65V	-	-	0.39	V
			I _O =2.3mA; V _{CC(A)} =V _{CC(Y)} =2.3V	-	-	0.36	V
			I _O =3.1mA; V _{CC(A)} =V _{CC(Y)} =2.3V	-	-	0.50	V

			$I_O=2.7mA$; $V_{CC(A)}=V_{CC(Y)}=3.0V$	-	-	0.36	V
			$I_O=4.0mA$; $V_{CC(A)}=V_{CC(Y)}=3.0V$	-	-	0.50	V
input leakage current	I_I	$V_I=0V$ to $3.6V$; $V_{CC(A)}=V_{CC(Y)}=1.1V$ to $3.6V$		-	-	± 1	μA
power-off leakage current	I_{OFF}	A input; $V_I=0V$ to $3.6V$; $V_{CC(A)}=0V$; $V_{CC(Y)}=0V$ to $3.6V$		-	-	± 1	μA
		Y output; $V_O=0V$ to $3.6V$; $V_I=0V$ or $3.6V$; $V_{CC(Y)}=0V$; $V_{CC(A)}=0V$ to $3.6V$		-	-	± 1	μA
additional power-off leakage current	ΔI_{OFF}	A input; $V_I=0V$ to $3.6V$; $V_{CC(A)}=0V$ to $0.2V$; $V_{CC(Y)}=0V$ to $3.6V$		-	-	± 1	μA
		Y output; $V_O=0V$ to $3.6V$; $V_I=0V$ or $3.6V$; $V_{CC(Y)}=0V$ to $0.2V$; $V_{CC(A)}=0V$ to $3.6V$		-	-	± 1	μA
supply current	I_{CC}	port A; $V_I=GND$ or $V_{CC(A)}$; $I_O=0A$	$V_{CC(A)}=V_{CC(Y)}=1.1V$ to $3.6V$	-	-	1	μA
			$V_{CC(A)}=3.6V$; $V_{CC(Y)}=0V$	-	-	1	μA
			$V_{CC(A)}=0V$; $V_{CC(Y)}=3.6V$	-	0.0	-	μA
		port Y; $V_I=GND$ or $V_{CC(A)}$; $I_O=0A$	$V_{CC(A)}=V_{CC(Y)}=1.1V$ to $3.6V$	-	-	1	μA
			$V_{CC(A)}=3.6V$; $V_{CC(Y)}=0V$	-	0.0	-	μA
			$V_{CC(A)}=0V$; $V_{CC(Y)}=3.6V$	-	-	1	μA
additional supply current	ΔI_{CC}	A input; $V_{CC(A)}=3.3V$; $V_{CC(Y)}=0V$ to $3.6V$; $V_I=V_{CC(A)}-0.6V$		-	-	75	μA

3.3.4、AC Characteristics 1

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

Parameter	Symbol	Conditions	Min.	Typ. ^[1]	Max.	Unit	
propagation delay	t _{pd}	A to Y ^[2]	C _L =5pF; V _{CC(A)} =1.1V to 1.3V				
			V _{CC(Y)} =1.1V to 1.3V	2.6	9.8	25.	ns
			V _{CC(Y)} =1.4V to 1.6V	2.4	7.1	415.	ns
			V _{CC(Y)} =1.65V to 1.95V	2.1	6.0	312.	ns
			V _{CC(Y)} =2.3V to 2.7V	2.0	5.1	7	ns
			V _{CC(Y)} =3.0V to 3.6V	2.1	4.7	9.8	ns
			C _L =5pF; V _{CC(A)} =1.4V to 1.6V				8.8
			V _{CC(Y)} =1.1V to 1.3V	2.3	9.1	23.	ns
			V _{CC(Y)} =1.4V to 1.6V	2.1	6.4	913.	ns
			V _{CC(Y)} =1.65V to 1.95V	1.8	5.3	610.	ns
			V _{CC(Y)} =2.3V to 2.7V	1.7	4.3	9	ns
			V _{CC(Y)} =3.0V to 3.6V	1.8	3.9	7.8	ns
			C _L =5pF; V _{CC(A)} =1.65V to 1.95V				6.6
			V _{CC(Y)} =1.1V to 1.3V	2.2	8.8		ns
			V _{CC(Y)} =1.4V to 1.6V	2.0	6.0		ns
			V _{CC(Y)} =1.65V to 1.95V	1.8	4.9		ns
			V _{CC(Y)} =2.3V to 2.7V	1.6	3.9		ns
			V _{CC(Y)} =3.0V to 3.6V	1.7	3.5		ns

$C_L=5pF; V_{CC(A)}=2.3V \text{ to } 2.7V$				
$V_{CC(Y)}=1.1V \text{ to } 1.3V$	2.2	8.4	22.8	ns
$V_{CC(Y)}=1.4V \text{ to } 1.6V$	1.9	5.7	12.3	ns
$V_{CC(Y)}=1.65V \text{ to } 1.95V$	1.7	4.6	9.6	ns
$V_{CC(Y)}=2.3V \text{ to } 2.7V$	1.5	3.5	6.3	ns
$V_{CC(Y)}=3.0V \text{ to } 3.6V$	1.6	3.1	5.1	ns
$C_L=5pF; V_{CC(A)}=3.0V \text{ to } 3.6V$				
$V_{CC(Y)}=1.1V \text{ to } 1.3V$	2.2	8.1	22.5	ns
$V_{CC(Y)}=1.4V \text{ to } 1.6V$	1.9	5.4	12.0	ns
$V_{CC(Y)}=1.65V \text{ to } 1.95V$	1.7	4.3	9.2	ns
$V_{CC(Y)}=2.3V \text{ to } 2.7V$	1.5	3.3	6.0	ns
$V_{CC(Y)}=3.0V \text{ to } 3.6V$	1.6	2.9	4.8	ns
$C_L=10pF; V_{CC(A)}=1.1V \text{ to } 1.3V$				
$V_{CC(Y)}=1.1V \text{ to } 1.3V$	2.6	10.7	27.1	ns
$V_{CC(Y)}=1.4V \text{ to } 1.6V$	2.6	7.7	16.7	ns
$V_{CC(Y)}=1.65V \text{ to } 1.95V$	2.7	6.6	13.4	ns
$V_{CC(Y)}=2.3V \text{ to } 2.7V$	2.2	5.6	10.3	ns
$V_{CC(Y)}=3.0V \text{ to } 3.6V$	2.5	5.3	9.5	ns
$C_L=10pF; V_{CC(A)}=1.4V \text{ to } 1.6V$				
$V_{CC(Y)}=1.1V \text{ to } 1.3V$	2.4	10.0	25.6	ns
$V_{CC(Y)}=1.4V \text{ to } 1.6V$	2.4	7.0	15.0	ns
$V_{CC(Y)}=1.65V \text{ to } 1.95V$	2.4	5.9	11.6	ns
$V_{CC(Y)}=2.3V \text{ to } 2.7V$	2.0	4.8	8.4	ns
$V_{CC(Y)}=3.0V \text{ to } 3.6V$	2.2	4.4	7.4	ns
$C_L=10pF; V_{CC(A)}=1.65V \text{ to } 1.95V$				
$V_{CC(Y)}=1.1V \text{ to } 1.3V$	2.3	9.7	24.8	ns
$V_{CC(Y)}=1.4V \text{ to } 1.6V$	2.3	6.6	14.3	ns
$V_{CC(Y)}=1.65V \text{ to } 1.95V$	2.3	5.5	11.0	ns
$V_{CC(Y)}=2.3V \text{ to } 2.7V$	1.9	4.4	7.7	ns
$V_{CC(Y)}=3.0V \text{ to } 3.6V$	2.1	4.0	6.6	ns
$C_L=10pF; V_{CC(A)}=2.3V \text{ to } 2.7V$				
$V_{CC(Y)}=1.1V \text{ to } 1.3V$	2.3	9.3	24.4	ns
$V_{CC(Y)}=1.4V \text{ to } 1.6V$	2.2	6.3	13.6	ns
$V_{CC(Y)}=1.65V \text{ to } 1.95V$	2.2	5.1	10.3	ns
$V_{CC(Y)}=2.3V \text{ to } 2.7V$	1.8	4.1	6.9	ns
$V_{CC(Y)}=3.0V \text{ to } 3.6V$	2.0	3.6	5.8	ns
$C_L=10pF; V_{CC(A)}=3.0V \text{ to } 3.6V$				
$V_{CC(Y)}=1.1V \text{ to } 1.3V$	2.3	9.0	24.2	ns
$V_{CC(Y)}=1.4V \text{ to } 1.6V$	2.2	6.0	13.3	ns
$V_{CC(Y)}=1.65V \text{ to } 1.95V$	2.2	4.9	9.9	ns
$V_{CC(Y)}=2.3V \text{ to } 2.7V$	1.8	3.9	6.5	ns
$V_{CC(Y)}=3.0V \text{ to } 3.6V$	2.0	3.5	5.4	ns
$C_L=15pF; V_{CC(A)}=1.1V \text{ to } 1.3V$				
$V_{CC(Y)}=1.1V \text{ to } 1.3V$	3.0	11.5	28.6	ns
$V_{CC(Y)}=1.4V \text{ to } 1.6V$	3.1	8.3	17.3	ns
$V_{CC(Y)}=1.65V \text{ to } 1.95V$	2.8	7.1	14.1	ns
$V_{CC(Y)}=2.3V \text{ to } 2.7V$	2.6	6.1	11.1	ns

			$V_{CC(Y)}=3.0V$ to $3.6V$	2.9	5.7	9.9	ns
			$C_L=15pF$; $V_{CC(A)}=1.4V$ to $1.6V$				
			$V_{CC(Y)}=1.1V$ to $1.3V$	2.8	10.8	27.1	ns
			$V_{CC(Y)}=1.4V$ to $1.6V$	2.8	7.6	15.7	ns
			$V_{CC(Y)}=1.65V$ to $1.95V$	2.5	6.3	12.3	ns
			$V_{CC(Y)}=2.3V$ to $2.7V$	2.3	5.3	9.2	ns
			$V_{CC(Y)}=3.0V$ to $3.6V$	2.6	4.9	7.8	ns
			$C_L=15pF$; $V_{CC(A)}=1.65V$ to $1.95V$				
			$V_{CC(Y)}=1.1V$ to $1.3V$	2.7	10.5	26.4	ns
			$V_{CC(Y)}=1.4V$ to $1.6V$	2.7	7.2	15.0	ns
			$V_{CC(Y)}=1.65V$ to $1.95V$	2.4	6.0	11.7	ns
			$V_{CC(Y)}=2.3V$ to $2.7V$	2.2	4.9	8.5	ns
			$V_{CC(Y)}=3.0V$ to $3.6V$	2.5	4.5	7.1	ns
			$C_L=15pF$; $V_{CC(A)}=2.3V$ to $2.7V$				
			$V_{CC(Y)}=1.1V$ to $1.3V$	2.6	10.1	26.0	ns
			$V_{CC(Y)}=1.4V$ to $1.6V$	2.7	6.9	14.3	ns
			$V_{CC(Y)}=1.65V$ to $1.95V$	2.4	5.6	10.9	ns
			$V_{CC(Y)}=2.3V$ to $2.7V$	2.1	4.5	7.6	ns
			$V_{CC(Y)}=3.0V$ to $3.6V$	2.4	4.1	6.2	ns
			$C_L=15pF$; $V_{CC(A)}=3.0V$ to $3.6V$				
			$V_{CC(Y)}=1.1V$ to $1.3V$	2.6	9.8	25.7	ns
			$V_{CC(Y)}=1.4V$ to $1.6V$	2.7	6.6	14.0	ns
			$V_{CC(Y)}=1.65V$ to $1.95V$	2.4	5.4	10.5	ns
			$V_{CC(Y)}=2.3V$ to $2.7V$	2.1	4.3	7.3	ns
			$V_{CC(Y)}=3.0V$ to $3.6V$	2.4	3.9	5.9	ns
			$C_L=30pF$; $V_{CC(A)}=1.1V$ to $1.3V$				
			$V_{CC(Y)}=1.1V$ to $1.3V$	3.7	13.7	32.9	ns
			$V_{CC(Y)}=1.4V$ to $1.6V$	3.6	9.8	19.5	ns
			$V_{CC(Y)}=1.65V$ to $1.95V$	3.7	8.4	15.9	ns
			$V_{CC(Y)}=2.3V$ to $2.7V$	3.0	7.2	12.2	ns
			$V_{CC(Y)}=3.0V$ to $3.6V$	3.8	6.8	10.9	ns
			$C_L=30pF$; $V_{CC(A)}=1.4V$ to $1.6V$				
			$V_{CC(Y)}=1.1V$ to $1.3V$	3.5	13.1	31.5	ns
			$V_{CC(Y)}=1.4V$ to $1.6V$	3.3	9.1	17.8	ns
			$V_{CC(Y)}=1.65V$ to $1.95V$	3.4	7.6	14.2	ns
			$V_{CC(Y)}=2.3V$ to $2.7V$	2.8	6.4	10.3	ns
			$V_{CC(Y)}=3.0V$ to $3.6V$	3.5	5.9	8.9	ns
			$C_L=30pF$; $V_{CC(A)}=1.65V$ to $1.95V$				
			$V_{CC(Y)}=1.1V$ to $1.3V$	3.4	12.7	30.7	ns
			$V_{CC(Y)}=1.4V$ to $1.6V$	3.2	8.8	17.2	ns
			$V_{CC(Y)}=1.65V$ to $1.95V$	3.3	7.3	13.5	ns
			$V_{CC(Y)}=2.3V$ to $2.7V$	2.7	6.0	9.6	ns
			$V_{CC(Y)}=3.0V$ to $3.6V$	3.4	5.6	8.2	ns
			$C_L=30pF$; $V_{CC(A)}=2.3V$ to $2.7V$				
			$V_{CC(Y)}=1.1V$ to $1.3V$	3.3	12.4	30.3	ns
			$V_{CC(Y)}=1.4V$ to $1.6V$	3.2	8.4	16.5	ns
			$V_{CC(Y)}=1.65V$ to $1.95V$	3.2	6.9	12.8	ns

			$V_{CC(Y)}=2.3V$ to $2.7V$	2.6	5.6	8.8	ns
			$V_{CC(Y)}=3.0V$ to $3.6V$	3.3	5.2	7.3	ns
		$C_L=30pF$; $V_{CC(A)}=3.0V$ to $3.6V$					
			$V_{CC(Y)}=1.1V$ to $1.3V$	3.3	12.0	30.0	ns
			$V_{CC(Y)}=1.4V$ to $1.6V$	3.2	8.1	16.2	ns
			$V_{CC(Y)}=1.65V$ to $1.95V$	3.2	6.7	12.4	ns
			$V_{CC(Y)}=2.3V$ to $2.7V$	2.6	5.5	8.5	ns
			$V_{CC(Y)}=3.0V$ to $3.6V$	3.2	5.0	7.0	ns

Note:

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

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

3.3.5、AC Characteristics 2

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

Parameter	Symbol	Conditions	Min.	Max. (85°C)	Max. (125°C)	Unit	
propagation delay	t _{pd}	A to Y ^[1]	C _L =5pF; V _{CC(A)} =1.1V to 1.3V				
			V _{CC(Y)} =1.1V to 1.3V	2.3	25.9	25.9	ns
			V _{CC(Y)} =1.4V to 1.6V	2.2	16.3	16.7	ns
			V _{CC(Y)} =1.65V to 1.95V	1.9	13.8	14.3	ns
			V _{CC(Y)} =2.3V to 2.7V	2.0	10.5	10.9	ns
			V _{CC(Y)} =3.0V to 3.6V	1.9	9.1	9.3	ns
			C _L =5pF; V _{CC(A)} =1.4V to 1.6V				
			V _{CC(Y)} =1.1V to 1.3V	2.0	24.5	24.5	ns
			V _{CC(Y)} =1.4V to 1.6V	1.9	14.7	15.2	ns
			V _{CC(Y)} =1.65V to 1.95V	1.6	12.1	12.6	ns
			V _{CC(Y)} =2.3V to 2.7V	1.6	8.7	9.2	ns
			V _{CC(Y)} =3.0V to 3.6V	1.6	7.1	7.5	ns
			C _L =5pF; V _{CC(A)} =1.65V to 1.95V				
			V _{CC(Y)} =1.1V to 1.3V	1.9	23.9	24.0	ns
			V _{CC(Y)} =1.4V to 1.6V	1.8	14.1	14.6	ns
			V _{CC(Y)} =1.65V to 1.95V	1.8	11.4	12.0	ns
			V _{CC(Y)} =2.3V to 2.7V	1.5	8.0	8.5	ns
			V _{CC(Y)} =3.0V to 3.6V	1.5	6.4	6.8	ns
			C _L =5pF; V _{CC(A)} =2.3V to 2.7V				
			V _{CC(Y)} =1.1V to 1.3V	1.9	23.4	23.4	ns
			V _{CC(Y)} =1.4V to 1.6V	1.8	13.4	14.0	ns
			V _{CC(Y)} =1.65V to 1.95V	1.5	10.7	11.2	ns
			V _{CC(Y)} =2.3V to 2.7V	1.5	7.2	7.7	ns
			V _{CC(Y)} =3.0V to 3.6V	1.4	5.6	6.0	ns
			C _L =5pF; V _{CC(A)} =3.0V to 3.6V				
			V _{CC(Y)} =1.1V to 1.3V	1.9	22.9	22.9	ns
			V _{CC(Y)} =1.4V to 1.6V	1.8	12.9	13.4	ns
			V _{CC(Y)} =1.65V to 1.95V	1.5	10.2	10.7	ns
			V _{CC(Y)} =2.3V to 2.7V	1.5	6.7	7.2	ns
			V _{CC(Y)} =3.0V to 3.6V	1.4	5.2	5.5	ns

$C_L=10\text{pF}$; $V_{CC(A)}=1.1\text{V to }1.3\text{V}$				
$V_{CC(Y)}=1.1\text{V to }1.3\text{V}$	2.5	27.6	27.6	ns
$V_{CC(Y)}=1.4\text{V to }1.6\text{V}$	2.3	17.5	17.6	ns
$V_{CC(Y)}=1.65\text{V to }1.95\text{V}$	2.4	14.2	14.7	ns
$V_{CC(Y)}=2.3\text{V to }2.7\text{V}$	2.2	11.0	11.4	ns
$V_{CC(Y)}=3.0\text{V to }3.6\text{V}$	2.2	9.7	10.0	ns
$C_L=10\text{pF}$; $V_{CC(A)}=1.4\text{V to }1.6\text{V}$				
$V_{CC(Y)}=1.1\text{V to }1.3\text{V}$	2.2	26.1	26.1	ns
$V_{CC(Y)}=1.4\text{V to }1.6\text{V}$	2.0	15.8	16.4	ns
$V_{CC(Y)}=1.65\text{V to }1.95\text{V}$	2.1	12.5	13.1	ns
$V_{CC(Y)}=2.3\text{V to }2.7\text{V}$	1.9	9.2	9.7	ns
$V_{CC(Y)}=3.0\text{V to }3.6\text{V}$	1.9	7.7	8.1	ns
$C_L=10\text{pF}$; $V_{CC(A)}=1.65\text{V to }1.95\text{V}$				
$V_{CC(Y)}=1.1\text{V to }1.3\text{V}$	2.1	26.1	26.1	ns
$V_{CC(Y)}=1.4\text{V to }1.6\text{V}$	2.0	15.8	16.4	ns
$V_{CC(Y)}=1.65\text{V to }1.95\text{V}$	2.0	12.5	13.1	ns
$V_{CC(Y)}=2.3\text{V to }2.7\text{V}$	1.8	9.2	9.7	ns
$V_{CC(Y)}=3.0\text{V to }3.6\text{V}$	1.8	7.1	8.1	ns
$C_L=10\text{pF}$; $V_{CC(A)}=2.3\text{V to }2.7\text{V}$				
$V_{CC(Y)}=1.1\text{V to }1.3\text{V}$	2.1	25.1	25.1	ns
$V_{CC(Y)}=1.4\text{V to }1.6\text{V}$	1.9	14.6	15.1	ns
$V_{CC(Y)}=1.65\text{V to }1.95\text{V}$	2.0	11.2	11.7	ns
$V_{CC(Y)}=2.3\text{V to }2.7\text{V}$	1.8	7.7	8.2	ns
$V_{CC(Y)}=3.0\text{V to }3.6\text{V}$	1.7	6.3	6.6	ns
$C_L=10\text{pF}$; $V_{CC(A)}=3.0\text{V to }3.6\text{V}$				
$V_{CC(Y)}=1.1\text{V to }1.3\text{V}$	2.1	24.6	24.6	ns
$V_{CC(Y)}=1.4\text{V to }1.6\text{V}$	1.9	14.1	14.6	ns
$V_{CC(Y)}=1.65\text{V to }1.95\text{V}$	2.0	10.6	11.2	ns
$V_{CC(Y)}=2.3\text{V to }2.7\text{V}$	1.8	7.3	7.7	ns
$V_{CC(Y)}=3.0\text{V to }3.6\text{V}$	1.7	5.8	6.2	ns
$C_L=15\text{pF}$; $V_{CC(A)}=1.1\text{V to }1.3\text{V}$				
$V_{CC(Y)}=1.1\text{V to }1.3\text{V}$	2.8	29.2	29.2	ns
$V_{CC(Y)}=1.4\text{V to }1.6\text{V}$	2.7	18.6	19.1	ns
$V_{CC(Y)}=1.65\text{V to }1.95\text{V}$	2.7	15.2	15.8	ns
$V_{CC(Y)}=2.3\text{V to }2.7\text{V}$	2.7	11.6	12.1	ns
$V_{CC(Y)}=3.0\text{V to }3.6\text{V}$	2.6	10.3	10.6	ns
$C_L=15\text{pF}$; $V_{CC(A)}=1.4\text{V to }1.6\text{V}$				
$V_{CC(Y)}=1.1\text{V to }1.3\text{V}$	2.6	27.7	27.7	ns
$V_{CC(Y)}=1.4\text{V to }1.6\text{V}$	2.4	17.0	17.6	ns
$V_{CC(Y)}=1.65\text{V to }1.95\text{V}$	2.4	13.5	14.1	ns
$V_{CC(Y)}=2.3\text{V to }2.7\text{V}$	2.4	9.9	10.3	ns
$V_{CC(Y)}=3.0\text{V to }3.6\text{V}$	2.3	8.3	8.7	ns
$C_L=15\text{pF}$; $V_{CC(A)}=1.65\text{V to }1.95\text{V}$				
$V_{CC(Y)}=1.1\text{V to }1.3\text{V}$	2.5	27.1	27.3	ns
$V_{CC(Y)}=1.4\text{V to }1.6\text{V}$	2.3	16.4	17.0	ns
$V_{CC(Y)}=1.65\text{V to }1.95\text{V}$	2.3	12.8	13.5	ns
$V_{CC(Y)}=2.3\text{V to }2.7\text{V}$	2.2	9.2	9.7	ns

			$V_{CC(Y)}=3.0V$ to $3.6V$	2.2	7.7	8.0	ns
			$C_L=15pF$; $V_{CC(A)}=2.3V$ to $2.7V$				
			$V_{CC(Y)}=1.1V$ to $1.3V$	2.4	26.7	26.7	ns
			$V_{CC(Y)}=1.4V$ to $1.6V$	2.3	15.7	16.3	ns
			$V_{CC(Y)}=1.65V$ to $1.95V$	2.3	12.1	12.7	ns
			$V_{CC(Y)}=2.3V$ to $2.7V$	2.2	8.4	8.9	ns
			$V_{CC(Y)}=3.0V$ to $3.6V$	2.1	6.8	7.2	ns
			$C_L=15pF$; $V_{CC(A)}=3.0V$ to $3.6V$				
			$V_{CC(Y)}=1.1V$ to $1.3V$	2.4	26.2	26.2	ns
			$V_{CC(Y)}=1.4V$ to $1.6V$	2.3	15.2	15.7	ns
			$V_{CC(Y)}=1.65V$ to $1.95V$	2.2	11.6	12.1	ns
			$V_{CC(Y)}=2.3V$ to $2.7V$	2.2	7.9	8.4	ns
			$V_{CC(Y)}=3.0V$ to $3.6V$	2.1	6.4	6.8	ns
			$C_L=30pF$; $V_{CC(A)}=1.1V$ to $1.3V$				
			$V_{CC(Y)}=1.1V$ to $1.3V$	3.5	33.5	33.5	ns
			$V_{CC(Y)}=1.4V$ to $1.6V$	3.6	20.9	21.4	ns
			$V_{CC(Y)}=1.65V$ to $1.95V$	3.5	17.0	17.1	ns
			$V_{CC(Y)}=2.3V$ to $2.7V$	3.4	12.7	13.2	ns
			$V_{CC(Y)}=3.0V$ to $3.6V$	3.4	12.2	12.5	ns
			$C_L=30pF$; $V_{CC(A)}=1.4V$ to $1.6V$				
			$V_{CC(Y)}=1.1V$ to $1.3V$	3.2	32.0	32.0	ns
			$V_{CC(Y)}=1.4V$ to $1.6V$	3.3	19.2	19.9	ns
			$V_{CC(Y)}=1.65V$ to $1.95V$	3.2	15.4	16.0	ns
			$V_{CC(Y)}=2.3V$ to $2.7V$	3.1	11.0	11.5	ns
			$V_{CC(Y)}=3.0V$ to $3.6V$	3.1	10.1	10.5	ns
			$C_L=30pF$; $V_{CC(A)}=1.65V$ to $1.95V$				
			$V_{CC(Y)}=1.1V$ to $1.3V$	3.1	31.5	31.5	ns
			$V_{CC(Y)}=1.4V$ to $1.6V$	3.2	18.7	19.3	ns
			$V_{CC(Y)}=1.65V$ to $1.95V$	3.1	14.7	15.4	ns
			$V_{CC(Y)}=2.3V$ to $2.7V$	3.0	10.4	10.9	ns
			$V_{CC(Y)}=3.0V$ to $3.6V$	2.9	9.4	9.8	ns
			$C_L=30pF$; $V_{CC(A)}=2.3V$ to $2.7V$				
			$V_{CC(Y)}=1.1V$ to $1.3V$	3.1	31.0	31.0	ns
			$V_{CC(Y)}=1.4V$ to $1.6V$	3.1	18.0	18.7	ns
			$V_{CC(Y)}=1.65V$ to $1.95V$	3.0	14.0	14.6	ns
			$V_{CC(Y)}=2.3V$ to $2.7V$	2.9	9.6	10.1	ns
			$V_{CC(Y)}=3.0V$ to $3.6V$	2.9	8.5	9.0	ns
			$C_L=30pF$; $V_{CC(A)}=3.0V$ to $3.6V$				
			$V_{CC(Y)}=1.1V$ to $1.3V$	3.1	30.5	30.5	ns
			$V_{CC(Y)}=1.4V$ to $1.6V$	3.1	17.5	18.1	ns
			$V_{CC(Y)}=1.65V$ to $1.95V$	3.0	13.4	14.1	ns
			$V_{CC(Y)}=2.3V$ to $2.7V$	2.9	9.1	9.6	ns
			$V_{CC(Y)}=3.0V$ to $3.6V$	2.9	8.1	8.5	ns

Note:

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

4、Testing Circuit

4.1、AC Testing Circuit

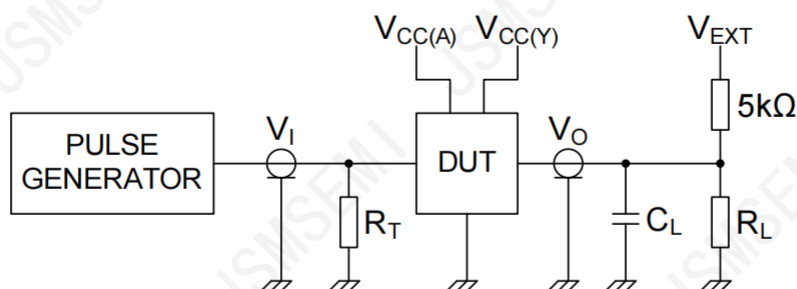


Figure 4. Test circuit for measuring switching times

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

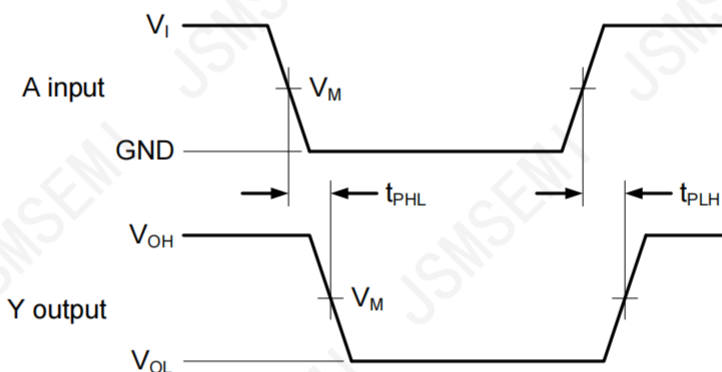


Figure 5. The data input (A) to output (Y) propagation delays

4.3、Measurement Points

Supply voltage	Input	Output		
$V_{CC(A)}/V_{CC(Y)}$	V_M	V_M	V_I	$t_r=t_f$
1.1V to 3.6V	$0.5 \times V_{CC(Y)}$	$0.5 \times V_{CC(A)}$	$V_{CC(A)}$	$\leq 3.0\text{ns}$

4.4、Test Data

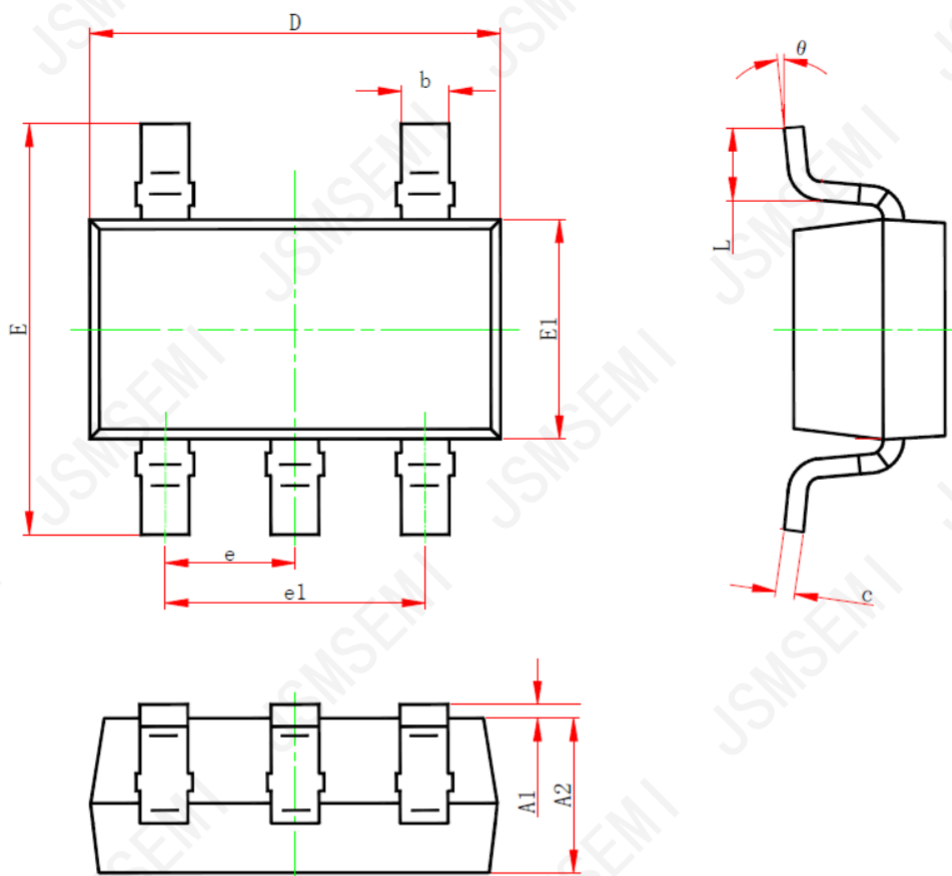
Supply voltage	Load		V_{EXT}
V_{CC}	C_L	$R_L^{[1]}$	t_{PLH}, t_{PHL}
1.1V to 3.6V	5pF, 10pF, 15pF and 30pF	5kΩ or 1MΩ	open

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 $R_L=1\text{M}\Omega$.

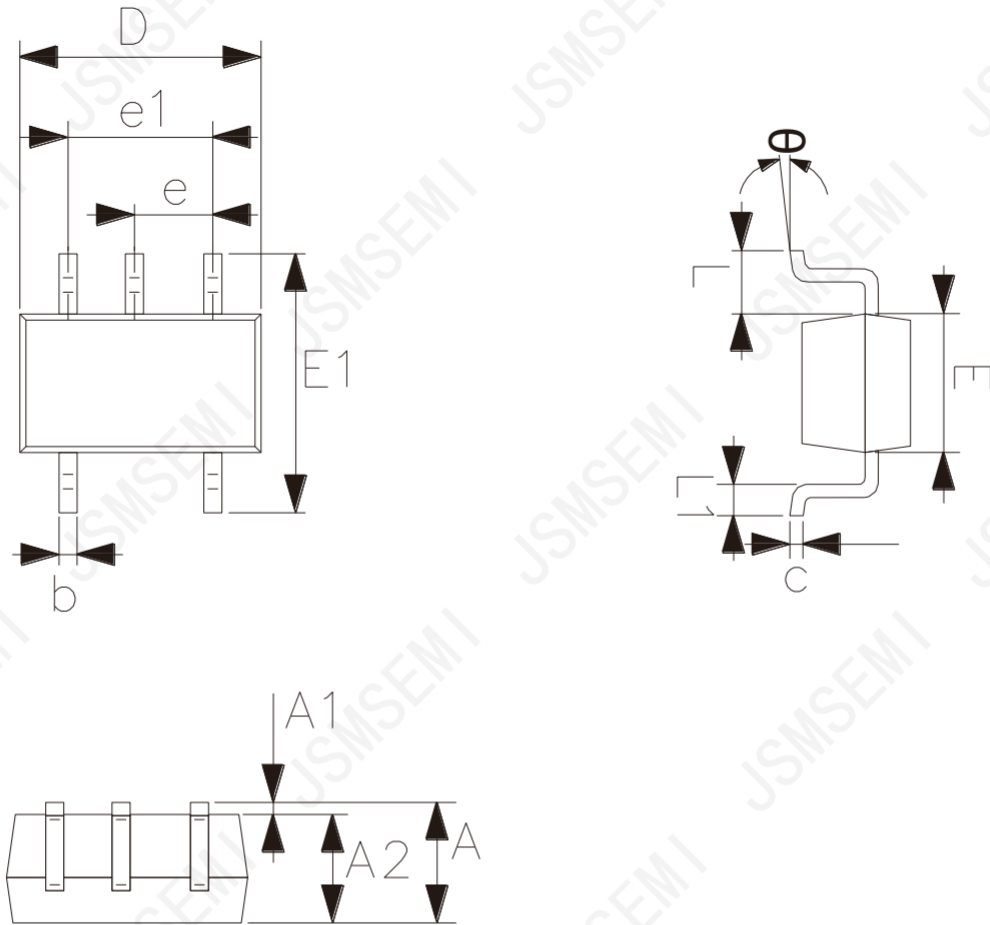
5、Package Information

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.									

Revision History

Rev.	Change	Date
V1.0	Initial version	2/23/2024

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