



AiP74AUP1G373

Low Power D Type Transparent Latch; 3-State

Product Specification

Specification Revision History:

Version	Date	Description
2025-09-A0	2025-09	New
2025-11-A1	2025-11	Modify the parameters



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1、General Description

The AiP74AUP1G373 provides the single D-type transparent latch 3-state output. 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/SOT363/SOT23-6

Ordering Information:

Part number	Packaging form	Marking code	Reel quantity	Boxed reel quantity	Notes
AiP74AUP1G373 GB236.TR	SOT23-6	AiP JM	3000 PCS/reel	30000 PCS/box	Dimensions of plastic enclosure: 2.9mm×1.6mm Pin spacing: 0.95mm
AiP74AUP1G373 GC363.TR	SOT363	JMXX	3000 PCS/reel	30000 PCS/box	Dimensions of plastic enclosure: 2.1mm×1.3mm Pin spacing: 0.65mm
AiP74AUP1G373 EA6.TR	XSON6	JM XX	5000 PCS/reel	25000 PCS/box	Dimensions of plastic enclosure: 1.45mm×1.0mm Pin spacing: 0.50mm
AiP74AUP1G373 ED6.TR	XSON6	JM 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

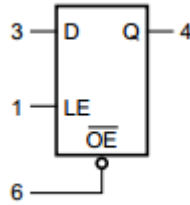


Figure 1. Logic symbol

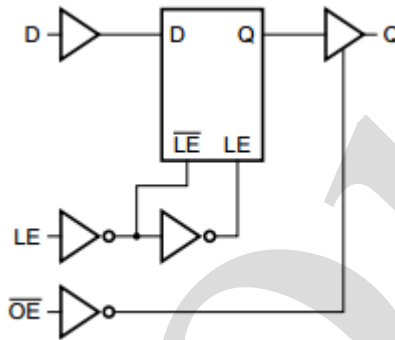
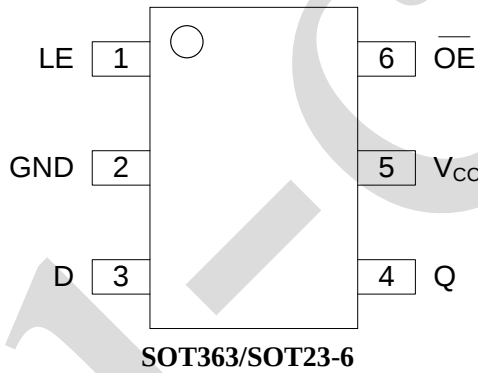
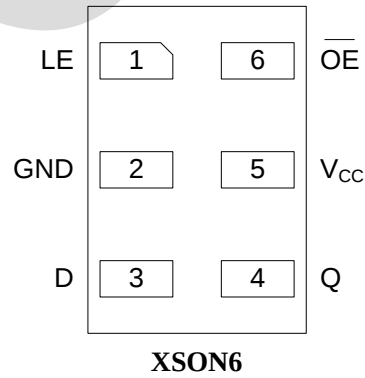


Figure 2. Logic diagram

2.2、Pin Configurations



SOT363/SOT23-6



XSON6

2.3、Pin Description

Pin No.	Pin Name	Description
1	LE	latch enable input(active HIGH)
2	GND	ground (0V)
3	D	data input
4	Q	latch output
5	V _{CC}	supply voltage
6	$\overline{\text{OE}}$	output enable input(active LOW)



2.4、Function Table

Input			Internal latch	Output
OE	LE	D		Q
L	H	L	L	L
L	H	H	H	H
L	L	l	L	L
L	L	h	H	H
H	X	X	X	Z

Note:

H=HIGH voltage level;

h=HIGH voltage level one setup time prior to the HIGH-to-LOW LE transition;

L=LOW voltage level;

l=LOW voltage level one setup time prior to the HIGH-to-LOW LE transition;

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 (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	[1]	-0.5	+4.6	V
output clamping current	I _{OK}	V _O <0V	-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 =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		℃
Electrostatic discharge	ESD	HBM	8000		V

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} =0V	0	-	3.6	V
ambient temperature	T _{amb}	-	-40	-	+125	℃



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}	$V_{CC}=0.8\text{V}$		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}	$V_I=V_{IH}$ or V_{IL}	$I_O=-20\mu\text{A}$; $V_{CC}=0.8\text{V}$ to 3.6V	$V_{CC}-0.1$	-	-	V
			$I_O=-1.1\text{mA}$; $V_{CC}=1.1\text{V}$	$0.75 \times V_{CC}$	-	-	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}	$V_I=V_{IH}$ 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
			$I_O=1.7\text{mA}$; $V_{CC}=1.4\text{V}$	-	-	0.31	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 3.6V ; $V_{CC}=0\text{V}$ to 3.6V		-	-	± 1	μA
OFF-state output current	I_{OZ}	$V_I=V_{IH}$ or V_{IL} ; $V_O=0\text{V}$ to 3.6V ; $V_{CC}=0\text{V}$ to 3.6V		-	-	± 1	μA
power-off leakage current	I_{OFF}	V_I or $V_O=0\text{V}$ to 3.6V ; $V_{CC}=0\text{V}$		-	-	± 1	μA
additional power-off leakage current	ΔI_{OFF}	V_I or $V_O=0\text{V}$ to 3.6V ; $V_{CC}=0\text{V}$ to 0.2V		-	-	± 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 3.6V		-	-	1	μA
additional supply current	ΔI_{CC}	$V_I=V_{CC}-0.6\text{V}$; $I_O=0\text{A}$; $V_{CC}=3.3\text{V}$; One input at $V_{CC}-0.6\text{V}$, other input at V_{CC} or GND		-	-	40	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} =0.8V		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}	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		-	-	±2	uA
OFF-state output current	I _{OZ}	V _I =V _{IH} or V _{IL} ; V _O =0V to 3.6V; V _{CC} =0V to 3.6V		-	-	±2	uA
power-off leakage current	I _{OFF}	V _I or V _O =0V to 3.6V; V _{CC} =0V		-	-	±2	uA
additional power-off leakage current	ΔI _{OFF}	V _I or V _O =0V to 3.6V; V _{CC} =0V to 0.2V		-	-	±2	uA
supply current	I _{CC}	V _I =GND or V _{CC} ; I _O =0A; V _{CC} =0.8V to 3.6V		-	-	2	uA
additional supply current	ΔI _{CC}	V _I =V _{CC} -0.6V; I _O =0A; V _{CC} =3.3V; One input at V _{CC} -0.6V, other input at V _{CC} or GND		-	-	50	uA



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
		V _{CC} =0.9V to 1.95V		0.80×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		-	-	±4	uA
OFF-state output current	I _{OZ}	V _I =V _{IH} or V _{IL} ; V _O =0V to 3.6V; V _{CC} =0V to 3.6V		-	-	±4	uA
power-off leakage current	I _{OFF}	V _I or V _O =0V to 3.6V; V _{CC} =0V		-	-	±4	uA
additional power-off leakage current	ΔI _{OFF}	V _I or V _O =0V to 3.6V; V _{CC} =0V to 0.2V		-	-	±4	uA
supply current	I _{CC}	V _I =GND or V _{CC} ; I _O =0A; V _{CC} =0.8V to 3.6V		-	-	4	uA
additional supply current	ΔI _{CC}	V _I =V _{CC} -0.6V; I _O =0A; V _{CC} =3.3V; One input at V _{CC} -0.6V, other input at V _{CC} or GND		-	-	75	uA



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}	D to Q; see Figure 4	$C_L=5\text{pF}$			
			$V_{CC}=0.8\text{V}$	-	21.4	- ns
			$V_{CC}=1.1\text{V to }1.3\text{V}$	2.8	6.6	13.5 ns
			$V_{CC}=1.4\text{V to }1.6\text{V}$	2.4	4.6	7.8 ns
			$V_{CC}=1.65\text{V to }1.95\text{V}$	1.9	3.7	6.2 ns
			$V_{CC}=2.3\text{V to }2.7\text{V}$	1.8	2.9	4.1 ns
			$V_{CC}=3.0\text{V to }3.6\text{V}$	1.5	2.5	3.5 ns
			$C_L=10\text{pF}$			
			$V_{CC}=0.8\text{V}$	-	24.4	- ns
			$V_{CC}=1.1\text{V to }1.3\text{V}$	3.0	7.5	15.3 ns
			$V_{CC}=1.4\text{V to }1.6\text{V}$	2.6	5.3	9.0 ns
			$V_{CC}=1.65\text{V to }1.95\text{V}$	2.5	4.3	6.9 ns
			$V_{CC}=2.3\text{V to }2.7\text{V}$	2.0	3.5	4.8 ns
			$V_{CC}=3.0\text{V to }3.6\text{V}$	1.8	3.1	4.2 ns
			$C_L=15\text{pF}$			
			$V_{CC}=0.8\text{V}$	-	27.3	- ns
			$V_{CC}=1.1\text{V to }1.3\text{V}$	3.5	8.3	16.9 ns
			$V_{CC}=1.4\text{V to }1.6\text{V}$	3.1	5.9	9.6 ns
			$V_{CC}=1.65\text{V to }1.95\text{V}$	2.6	4.8	7.6 ns
			$V_{CC}=2.3\text{V to }2.7\text{V}$	2.5	3.9	5.5 ns
			$V_{CC}=3.0\text{V to }3.6\text{V}$	2.2	3.6	4.9 ns
			$C_L=30\text{pF}$			
			$V_{CC}=0.8\text{V}$	-	35.9	- ns
			$V_{CC}=1.1\text{V to }1.3\text{V}$	4.0	10.6	22.1 ns
			$V_{CC}=1.4\text{V to }1.6\text{V}$	3.6	7.5	12.3 ns
			$V_{CC}=1.65\text{V to }1.95\text{V}$	3.5	6.2	9.5 ns
			$V_{CC}=2.3\text{V to }2.7\text{V}$	3.3	5.1	6.9 ns
			$V_{CC}=3.0\text{V to }3.6\text{V}$	3.0	4.7	6.4 ns
		LE to Q; see Figure 5	$C_L=5\text{pF}$			
			$V_{CC}=0.8\text{V}$	-	20.3	- ns
			$V_{CC}=1.1\text{V to }1.3\text{V}$	2.7	6.2	13.6 ns
			$V_{CC}=1.4\text{V to }1.6\text{V}$	2.3	4.4	7.6 ns
			$V_{CC}=1.65\text{V to }1.95\text{V}$	1.8	3.5	5.8 ns
			$V_{CC}=2.3\text{V to }2.7\text{V}$	1.5	2.6	4.0 ns
			$V_{CC}=3.0\text{V to }3.6\text{V}$	1.3	2.2	3.3 ns
			$C_L=10\text{pF}$			
			$V_{CC}=0.8\text{V}$	-	23.3	- ns
			$V_{CC}=1.1\text{V to }1.3\text{V}$	2.9	7.1	15.4 ns
			$V_{CC}=1.4\text{V to }1.6\text{V}$	2.5	5.0	8.8 ns
			$V_{CC}=1.65\text{V to }1.95\text{V}$	2.3	4.1	6.6 ns
			$V_{CC}=2.3\text{V to }2.7\text{V}$	1.9	3.1	4.7 ns
			$V_{CC}=3.0\text{V to }3.6\text{V}$	1.7	2.8	4.0 ns
			$C_L=15\text{pF}$			



			$V_{CC}=0.8V$	-	26.1	-	ns
			$V_{CC}=1.1V$ to $1.3V$	3.3	7.9	17.3	ns
			$V_{CC}=1.4V$ to $1.6V$	3.0	5.6	9.7	ns
			$V_{CC}=1.65V$ to $1.95V$	2.5	4.6	7.4	ns
			$V_{CC}=2.3V$ to $2.7V$	2.3	3.6	5.3	ns
			$V_{CC}=3.0V$ to $3.6V$	2.1	3.2	4.6	ns
			$C_L=30pF$				
			$V_{CC}=0.8V$	-	34.8	-	ns
			$V_{CC}=1.1V$ to $1.3V$	3.9	10.2	22.2	ns
			$V_{CC}=1.4V$ to $1.6V$	3.5	7.2	12.4	ns
			$V_{CC}=1.65V$ to $1.95V$	3.3	5.9	9.5	ns
			$V_{CC}=2.3V$ to $2.7V$	3.1	4.8	6.8	ns
			$V_{CC}=3.0V$ to $3.6V$	2.9	4.4	6.1	ns
enable time	t_{en}	OE to Q; see Figure 7	$C_L=5pF$				
			$V_{CC}=0.8V$	-	17.9	-	ns
			$V_{CC}=1.1V$ to $1.3V$	3.2	5.1	9.2	ns
			$V_{CC}=1.4V$ to $1.6V$	2.6	3.8	5.8	ns
			$V_{CC}=1.65V$ to $1.95V$	2.2	3.3	4.8	ns
			$V_{CC}=2.3V$ to $2.7V$	2.0	2.7	3.8	ns
			$V_{CC}=3.0V$ to $3.6V$	1.9	2.5	3.4	ns
			$C_L=10pF$				
			$V_{CC}=0.8V$	-	21.2	-	ns
			$V_{CC}=1.1V$ to $1.3V$	3.7	6.0	10.6	ns
			$V_{CC}=1.4V$ to $1.6V$	3.1	4.5	6.7	ns
			$V_{CC}=1.65V$ to $1.95V$	2.7	3.9	5.5	ns
			$V_{CC}=2.3V$ to $2.7V$	2.4	3.3	4.5	ns
			$V_{CC}=3.0V$ to $3.6V$	2.3	3.1	4.1	ns
			$C_L=15pF$				
			$V_{CC}=0.8V$	-	24.6	-	ns
			$V_{CC}=1.1V$ to $1.3V$	4.1	6.8	12.1	ns
			$V_{CC}=1.4V$ to $1.6V$	3.5	5.1	7.5	ns
			$V_{CC}=1.65V$ to $1.95V$	3.1	4.4	6.1	ns
			$V_{CC}=2.3V$ to $2.7V$	2.8	3.7	5.0	ns
			$V_{CC}=3.0V$ to $3.6V$	2.6	3.5	4.7	ns
			$C_L=30pF$				
			$V_{CC}=0.8V$	-	34.5	-	ns
			$V_{CC}=1.1V$ to $1.3V$	5.5	9.1	16.2	ns
			$V_{CC}=1.4V$ to $1.6V$	4.6	6.7	9.9	ns
			$V_{CC}=1.65V$ to $1.95V$	4.2	5.7	7.9	ns
			$V_{CC}=2.3V$ to $2.7V$	3.6	4.9	6.4	ns
			$V_{CC}=3.0V$ to $3.6V$	3.4	4.7	6.1	ns
disable time	t_{dis}	OE to Q; see Figure 7	$C_L=5pF$				
			$V_{CC}=0.8V$	-	9.4	-	ns
			$V_{CC}=1.1V$ to $1.3V$	2.9	4.2	7.5	ns
			$V_{CC}=1.4V$ to $1.6V$	2.2	3.2	4.9	ns
			$V_{CC}=1.65V$ to $1.95V$	2.2	3.0	4.4	ns
			$V_{CC}=2.3V$ to $2.7V$	1.6	2.2	3.1	ns



			V _{CC} =3.0V to 3.6V	1.9	2.6	3.3	ns
			C _L =10pF				
			V _{CC} =0.8V	-	11.3	-	ns
			V _{CC} =1.1V to 1.3V	3.9	5.3	8.7	ns
			V _{CC} =1.4V to 1.6V	3.0	4.1	5.8	ns
			V _{CC} =1.65V to 1.95V	3.2	4.2	5.7	ns
			V _{CC} =2.3V to 2.7V	2.3	3.0	4.0	ns
			V _{CC} =3.0V to 3.6V	3.0	3.8	4.7	ns
			C _L =15pF				
			V _{CC} =0.8V	-	13.1	-	ns
			V _{CC} =1.1V to 1.3V	4.9	6.5	9.8	ns
			V _{CC} =1.4V to 1.6V	3.9	5.0	6.8	ns
			V _{CC} =1.65V to 1.95V	4.2	5.3	6.9	ns
			V _{CC} =2.3V to 2.7V	3.0	3.8	4.8	ns
			V _{CC} =3.0V to 3.6V	4.1	5.0	6.1	ns
			C _L =30pF				
			V _{CC} =0.8V	-	19.2	-	ns
			V _{CC} =1.1V to 1.3V	8.0	9.9	13.7	ns
			V _{CC} =1.4V to 1.6V	6.3	7.7	9.7	ns
			V _{CC} =1.65V to 1.95V	7.3	8.7	10.6	ns
			V _{CC} =2.3V to 2.7V	5.2	6.2	7.5	ns
			V _{CC} =3.0V to 3.6V	7.5	8.8	10.2	ns
C _L =5pF, 10pF,15pF,30pF							
set-up time	t _{su}	HIGH; D to LE	V _{CC} =0.8V	-	4.6	-	ns
			V _{CC} =1.1V to 1.3V	-	0.9	-	ns
			V _{CC} =1.4V to 1.6V	-	0.6	-	ns
			V _{CC} =1.65V to 1.95V	-	0.4	-	ns
			V _{CC} =2.3V to 2.7V	-	0	-	ns
			V _{CC} =3.0V to 3.6V	-	-0.1	-	ns
		LOW; D to LE	V _{CC} =0.8V	-	4	-	ns
			V _{CC} =1.1V to 1.3V	-	1.2	-	ns
			V _{CC} =1.4V to 1.6V	-	0.7	-	ns
			V _{CC} =1.65V to 1.95V	-	0.6	-	ns
			V _{CC} =2.3V to 2.7V	-	0.4	-	ns
			V _{CC} =3.0V to 3.6V	-	0.3	-	ns
hold time	t _h	D to LE HIGH or LOW	V _{CC} =0.8V	-	-4.6	-	ns
			V _{CC} =1.1V to 1.3V	-	-0.9	-	ns
			V _{CC} =1.4V to 1.6V	-	-0.6	-	ns
			V _{CC} =1.65V to 1.95V	-	-0.4	-	ns
			V _{CC} =2.3V to 2.7V	-	-0.2	-	ns
			V _{CC} =3.0V to 3.6V	-	-0.1	-	ns
pulse width	t _w	LE HIGH	V _{CC} =0.8V	-	4.0	-	ns
			V _{CC} =1.1V to 1.3V	-	0.7	-	ns
			V _{CC} =1.4V to 1.6V	-	0.5	-	ns
			V _{CC} =1.65V to 1.95V	-	0.4	-	ns
			V _{CC} =2.3V to 2.7V	-	0.3	-	ns
			V _{CC} =3.0V to 3.6V	-	0.2	-	ns



Note:

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

3.3.5、AC 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	
propagation delay	t _{PLH} , t _{PHL}	D to Q; see Figure 4	C _L =5pF				
			V _{CC} =1.1V to 1.3V	2.6	-	13.8	ns
			V _{CC} =1.4V to 1.6V	2.1	-	8.3	ns
			V _{CC} =1.65V to 1.95V	1.6	-	6.7	ns
			V _{CC} =2.3V to 2.7V	1.5	-	4.5	ns
			V _{CC} =3.0V to 3.6V	1.2	-	4.0	ns
			C _L =10pF				
			V _{CC} =1.1V to 1.3V	2.7	-	15.9	ns
			V _{CC} =1.4V to 1.6V	2.2	-	9.4	ns
			V _{CC} =1.65V to 1.95V	2.1	-	7.3	ns
			V _{CC} =2.3V to 2.7V	1.8	-	5.3	ns
			V _{CC} =3.0V to 3.6V	1.7	-	4.6	ns
			C _L =15pF				
			V _{CC} =1.1V to 1.3V	3.2	-	17.5	ns
			V _{CC} =1.4V to 1.6V	2.7	-	10.5	ns
			V _{CC} =1.65V to 1.95V	2.2	-	8.5	ns
			V _{CC} =2.3V to 2.7V	2.2	-	5.9	ns
			V _{CC} =3.0V to 3.6V	1.8	-	5.5	ns
			C _L =30pF				
			V _{CC} =1.1V to 1.3V	3.7	-	23.3	ns
			V _{CC} =1.4V to 1.6V	3.5	-	13.6	ns
			V _{CC} =1.65V to 1.95V	3.2	-	10.5	ns
			V _{CC} =2.3V to 2.7V	2.9	-	7.6	ns
			V _{CC} =3.0V to 3.6V	2.9	-	7.2	ns
		LE to Q; see Figure 5	C _L =5pF				
			V _{CC} =1.1V to 1.3V	2.5	-	14.0	ns
			V _{CC} =1.4V to 1.6V	2.0	-	8.5	ns
			V _{CC} =1.65V to 1.95V	1.5	-	6.7	ns
			V _{CC} =2.3V to 2.7V	1.3	-	4.4	ns
			V _{CC} =3.0V to 3.6V	1.1	-	3.8	ns
			C _L =10pF				
			V _{CC} =1.1V to 1.3V	2.7	-	16.1	ns
			V _{CC} =1.4V to 1.6V	2.1	-	9.5	ns
			V _{CC} =1.65V to 1.95V	2.0	-	7.3	ns
			V _{CC} =2.3V to 2.7V	1.6	-	5.2	ns
			V _{CC} =3.0V to 3.6V	1.4	-	4.4	ns
C _L =15pF							
V _{CC} =1.1V to 1.3V	3.0	-	18.0	ns			
V _{CC} =1.4V to 1.6V	2.5	-	10.7	ns			
V _{CC} =1.65V to 1.95V	2.2	-	8.3	ns			



			V _{CC} =2.3V to 2.7V	2.0	-	5.9	ns
			V _{CC} =3.0V to 3.6V	1.8	-	5.1	ns
			C _L =30pF				
			V _{CC} =1.1V to 1.3V	3.7	-	23.5	ns
			V _{CC} =1.4V to 1.6V	3.4	-	13.7	ns
			V _{CC} =1.65V to 1.95V	3.0	-	10.5	ns
			V _{CC} =2.3V to 2.7V	2.7	-	7.5	ns
			V _{CC} =3.0V to 3.6V	2.6	-	7.0	ns
enable time	t _{en}	$\overline{\text{OE}}$ to Q; see Figure 7	C _L =5pF				
			V _{CC} =1.1V to 1.3V	3.0	-	9.2	ns
			V _{CC} =1.4V to 1.6V	2.4	-	6.1	ns
			V _{CC} =1.65V to 1.95V	2.0	-	5.0	ns
			V _{CC} =2.3V to 2.7V	1.8	-	4.0	ns
			V _{CC} =3.0V to 3.6V	1.8	-	3.6	ns
			C _L =10pF				
			V _{CC} =1.1V to 1.3V	3.4	-	10.6	ns
			V _{CC} =1.4V to 1.6V	2.8	-	7.0	ns
			V _{CC} =1.65V to 1.95V	2.5	-	5.8	ns
			V _{CC} =2.3V to 2.7V	2.2	-	4.7	ns
			V _{CC} =3.0V to 3.6V	2.2	-	4.3	ns
			C _L =15pF				
			V _{CC} =1.1V to 1.3V	3.8	-	12.1	ns
			V _{CC} =1.4V to 1.6V	3.2	-	7.9	ns
			V _{CC} =1.65V to 1.95V	2.8	-	6.5	ns
			V _{CC} =2.3V to 2.7V	2.5	-	5.3	ns
			V _{CC} =3.0V to 3.6V	2.5	-	4.9	ns
			C _L =30pF				
			V _{CC} =1.1V to 1.3V	4.9	-	16.2	ns
			V _{CC} =1.4V to 1.6V	4.2	-	10.5	ns
			V _{CC} =1.65V to 1.95V	3.7	-	8.6	ns
			V _{CC} =2.3V to 2.7V	3.4	-	6.9	ns
			V _{CC} =3.0V to 3.6V	3.3	-	6.5	ns
disable time	t _{dis}	$\overline{\text{OE}}$ to Q; see Figure 7	C _L =5pF				
			V _{CC} =1.1V to 1.3V	2.8	-	7.9	ns
			V _{CC} =1.4V to 1.6V	2.1	-	5.3	ns
			V _{CC} =1.65V to 1.95V	2.1	-	4.9	ns
			V _{CC} =2.3V to 2.7V	1.5	-	3.4	ns
			V _{CC} =3.0V to 3.6V	1.8	-	3.6	ns
			C _L =10pF				
			V _{CC} =1.1V to 1.3V	3.8	-	9.2	ns
			V _{CC} =1.4V to 1.6V	2.9	-	6.2	ns
			V _{CC} =1.65V to 1.95V	3.1	-	6.0	ns
			V _{CC} =2.3V to 2.7V	2.2	-	4.3	ns
			V _{CC} =3.0V to 3.6V	2.9	-	5.0	ns
			C _L =15pF				
			V _{CC} =1.1V to 1.3V	4.8	-	10.4	ns
			V _{CC} =1.4V to 1.6V	3.8	-	7.3	ns



			V _{CC} =1.65V to 1.95V	4.1	-	7.3	ns
			V _{CC} =2.3V to 2.7V	2.9	-	5.1	ns
			V _{CC} =3.0V to 3.6V	4.0	-	6.4	ns
			C _L =30pF				
			V _{CC} =1.1V to 1.3V	7.9	-	14.5	ns
			V _{CC} =1.4V to 1.6V	6.2	-	10.5	ns
			V _{CC} =1.65V to 1.95V	7.2	-	11.3	ns
			V _{CC} =2.3V to 2.7V	5.1	-	7.8	ns
			V _{CC} =3.0V to 3.6V	7.4	-	10.5	ns
C _L =5pF, 10pF,15pF,30pF							
set-up time	t _{su}	HIGH; D to LE	V _{CC} =1.1V to 1.3V	2.2	-	-	ns
			V _{CC} =1.4V to 1.6V	1.4	-	-	ns
			V _{CC} =1.65V to 1.95V	1.0	-	-	ns
			V _{CC} =2.3V to 2.7V	0.6	-	-	ns
			V _{CC} =3.0V to 3.6V	0.4	-	-	ns
		LOW; D to LE	V _{CC} =1.1V to 1.3V	2.7	-	-	ns
			V _{CC} =1.4V to 1.6V	1.5	-	-	ns
			V _{CC} =1.65V to 1.95V	1.2	-	-	ns
			V _{CC} =2.3V to 2.7V	0.9	-	-	ns
			V _{CC} =3.0V to 3.6V	0.7	-	-	ns
hold time	t _h	D to LE HIGH or LOW	V _{CC} =1.1V to 1.3V	-0.1	-	-	ns
			V _{CC} =1.4V to 1.6V	-0.1	-	-	ns
			V _{CC} =1.65V to 1.95V	0	-	-	ns
			V _{CC} =2.3V to 2.7V	0.2	-	-	ns
			V _{CC} =3.0V to 3.6V	0.3	-	-	ns
pulse width	t _w	LE HIGH	V _{CC} =1.1V to 1.3V	2.1	-	-	ns
			V _{CC} =1.4V to 1.6V	1.3	-	-	ns
			V _{CC} =1.65V to 1.95V	1.0	-	-	ns
			V _{CC} =2.3V to 2.7V	0.8	-	-	ns
			V _{CC} =3.0V to 3.6V	0.8	-	-	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_{PLH}, t_{PHL}	D to Q; see Figure 4	C _L =5pF				
			V _{CC} =1.1V to 1.3V	2.6	-	15.2	ns
			V _{CC} =1.4V to 1.6V	2.1	-	9.1	ns
			V _{CC} =1.65V to 1.95V	1.6	-	7.3	ns
			V _{CC} =2.3V to 2.7V	1.5	-	4.9	ns
			V _{CC} =3.0V to 3.6V	1.2	-	4.5	ns
			C _L =10pF				
			V _{CC} =1.1V to 1.3V	2.7	-	17.7	ns
			V _{CC} =1.4V to 1.6V	2.2	-	10.4	ns
			V _{CC} =1.65V to 1.95V	2.1	-	8.1	ns
			V _{CC} =2.3V to 2.7V	1.8	-	5.8	ns
			V _{CC} =3.0V to 3.6V	1.7	-	4.9	ns
			C _L =15pF				
			V _{CC} =1.1V to 1.3V	3.2	-	19.2	ns
			V _{CC} =1.4V to 1.6V	2.7	-	11.6	ns
			V _{CC} =1.65V to 1.95V	2.2	-	9.3	ns
			V _{CC} =2.3V to 2.7V	2.2	-	6.5	ns
			V _{CC} =3.0V to 3.6V	1.8	-	6.0	ns
			C _L =30pF				
			V _{CC} =1.1V to 1.3V	3.7	-	25.6	ns
			V _{CC} =1.4V to 1.6V	3.5	-	15.0	ns
			V _{CC} =1.65V to 1.95V	3.2	-	11.5	ns
			V _{CC} =2.3V to 2.7V	2.9	-	8.3	ns
			V _{CC} =3.0V to 3.6V	2.9	-	7.9	ns
		LE to Q; see Figure 5	C _L =5pF				
			V _{CC} =1.1V to 1.3V	2.5	-	15.4	ns
			V _{CC} =1.4V to 1.6V	2.0	-	9.3	ns
			V _{CC} =1.65V to 1.95V	1.5	-	7.3	ns
			V _{CC} =2.3V to 2.7V	1.3	-	4.8	ns
			V _{CC} =3.0V to 3.6V	1.1	-	4.2	ns
			C _L =10pF				
			V _{CC} =1.1V to 1.3V	2.7	-	17.7	ns
			V _{CC} =1.4V to 1.6V	2.1	-	10.4	ns
			V _{CC} =1.65V to 1.95V	2.0	-	8.1	ns
			V _{CC} =2.3V to 2.7V	1.6	-	5.8	ns
			V _{CC} =3.0V to 3.6V	1.4	-	4.9	ns
C _L =15pF							
V _{CC} =1.1V to 1.3V	3.0		-	19.8	ns		
V _{CC} =1.4V to 1.6V	2.5		-	11.8	ns		
V _{CC} =1.65V to 1.95V	2.2		-	9.1	ns		
V _{CC} =2.3V to 2.7V	2.0		-	6.4	ns		
V _{CC} =3.0V to 3.6V	1.8		-	5.6	ns		
C _L =30pF							



			V _{CC} =1.1V to 1.3V	3.7	-	25.9	ns
			V _{CC} =1.4V to 1.6V	3.4	-	15.1	ns
			V _{CC} =1.65V to 1.95V	3.0	-	11.6	ns
			V _{CC} =2.3V to 2.7V	2.7	-	8.2	ns
			V _{CC} =3.0V to 3.6V	2.6	-	7.7	ns
enable time	t _{en}	$\overline{\text{OE}}$ to Q; see Figure 7	C _L =5pF				
			V _{CC} =1.1V to 1.3V	3.0	-	10.1	ns
			V _{CC} =1.4V to 1.6V	2.4	-	6.7	ns
			V _{CC} =1.65V to 1.95V	2.0	-	5.5	ns
			V _{CC} =2.3V to 2.7V	1.8	-	4.4	ns
			V _{CC} =3.0V to 3.6V	1.8	-	4.0	ns
			C _L =10pF				
			V _{CC} =1.1V to 1.3V	3.4	-	11.7	ns
			V _{CC} =1.4V to 1.6V	2.8	-	7.7	ns
			V _{CC} =1.65V to 1.95V	2.5	-	6.4	ns
			V _{CC} =2.3V to 2.7V	2.2	-	5.2	ns
			V _{CC} =3.0V to 3.6V	2.2	-	4.7	ns
			C _L =15pF				
			V _{CC} =1.1V to 1.3V	3.8	-	13.3	ns
			V _{CC} =1.4V to 1.6V	3.2	-	8.7	ns
			V _{CC} =1.65V to 1.95V	2.8	-	7.2	ns
			V _{CC} =2.3V to 2.7V	2.5	-	5.8	ns
			V _{CC} =3.0V to 3.6V	2.5	-	5.4	ns
			C _L =30pF				
			V _{CC} =1.1V to 1.3V	4.9	-	17.8	ns
			V _{CC} =1.4V to 1.6V	4.2	-	11.6	ns
			V _{CC} =1.65V to 1.95V	3.7	-	9.5	ns
			V _{CC} =2.3V to 2.7V	3.4	-	7.6	ns
			V _{CC} =3.0V to 3.6V	3.3	-	7.2	ns
disable time	t _{dis}	$\overline{\text{OE}}$ to Q; see Figure 7	C _L =5pF				
			V _{CC} =1.1V to 1.3V	2.8	-	8.7	ns
			V _{CC} =1.4V to 1.6V	2.1	-	5.8	ns
			V _{CC} =1.65V to 1.95V	2.1	-	5.4	ns
			V _{CC} =2.3V to 2.7V	1.5	-	3.7	ns
			V _{CC} =3.0V to 3.6V	1.8	-	4.0	ns
			C _L =10pF				
			V _{CC} =1.1V to 1.3V	3.8	-	10.1	ns
			V _{CC} =1.4V to 1.6V	2.9	-	6.8	ns
			V _{CC} =1.65V to 1.95V	3.1	-	6.6	ns
			V _{CC} =2.3V to 2.7V	2.2	-	4.7	ns
			V _{CC} =3.0V to 3.6V	2.9	-	5.5	ns
			C _L =15pF				
			V _{CC} =1.1V to 1.3V	4.8	-	11.4	ns
			V _{CC} =1.4V to 1.6V	3.8	-	8.0	ns
			V _{CC} =1.65V to 1.95V	4.1	-	8.0	ns
			V _{CC} =2.3V to 2.7V	2.9	-	5.6	ns
			V _{CC} =3.0V to 3.6V	4.0	-	7.0	ns



			C _L =30pF				
			V _{CC} =1.1V to 1.3V	7.9	-	16.0	ns
			V _{CC} =1.4V to 1.6V	6.2	-	11.6	ns
			V _{CC} =1.65V to 1.95V	7.2	-	12.4	ns
			V _{CC} =2.3V to 2.7V	5.1	-	8.6	ns
			V _{CC} =3.0V to 3.6V	7.4	-	11.6	ns
C _L =5pF, 10pF,15pF,30pF							
set-up time	t _{su}	HIGH; D to LE	V _{CC} =1.1V to 1.3V	2.2	-	-	ns
			V _{CC} =1.4V to 1.6V	1.4	-	-	ns
			V _{CC} =1.65V to 1.95V	1.0	-	-	ns
			V _{CC} =2.3V to 2.7V	0.6	-	-	ns
			V _{CC} =3.0V to 3.6V	0.4	-	-	ns
		LOW; D to LE	V _{CC} =1.1V to 1.3V	2.7	-	-	ns
			V _{CC} =1.4V to 1.6V	1.5	-	-	ns
			V _{CC} =1.65V to 1.95V	1.2	-	-	ns
			V _{CC} =2.3V to 2.7V	0.9	-	-	ns
			V _{CC} =3.0V to 3.6V	0.7	-	-	ns
hold time	t _h	D to LE HIGH or LOW	V _{CC} =1.1V to 1.3V	-0.1	-	-	ns
			V _{CC} =1.4V to 1.6V	-0.1	-	-	ns
			V _{CC} =1.65V to 1.95V	0	-	-	ns
			V _{CC} =2.3V to 2.7V	0.2	-	-	ns
			V _{CC} =3.0V to 3.6V	0.3	-	-	ns
pulse width	t _w	LE HIGH	V _{CC} =1.1V to 1.3V	2.1	-	-	ns
			V _{CC} =1.4V to 1.6V	1.3	-	-	ns
			V _{CC} =1.65V to 1.95V	1.0	-	-	ns
			V _{CC} =2.3V to 2.7V	0.8	-	-	ns
			V _{CC} =3.0V to 3.6V	0.8	-	-	ns

4、Testing Circuit

4.1、AC Testing Circuit

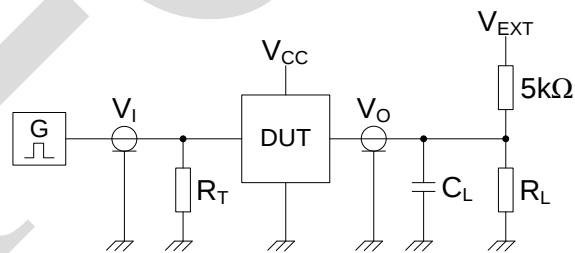


Figure 3. Test circuit for measuring switching times

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

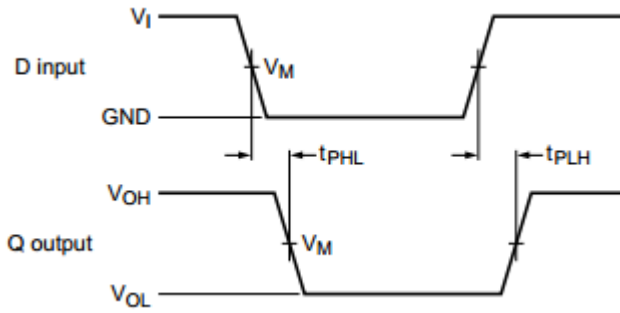


Figure 4. The data input (D) to output (Q) propagation delays

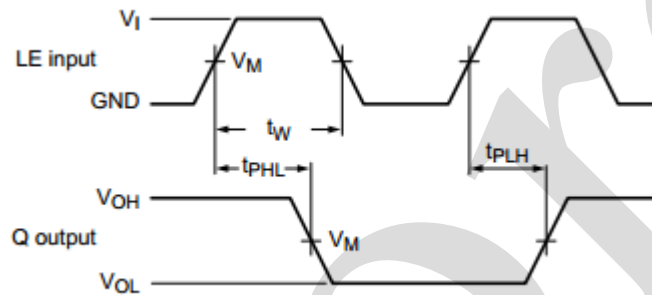


Figure 5. The latch enable input (LE) to output (Q) propagation delays, the latch enable input (LE) pulse width

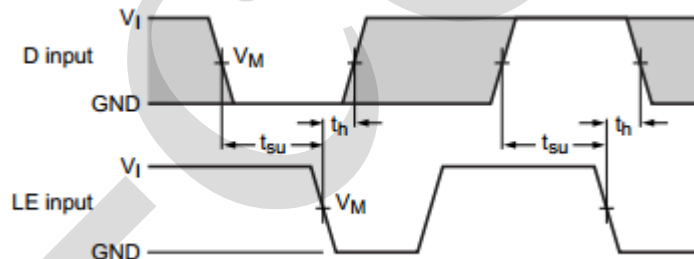


Figure 6. Data set-up and hold times for the D input to the LE input

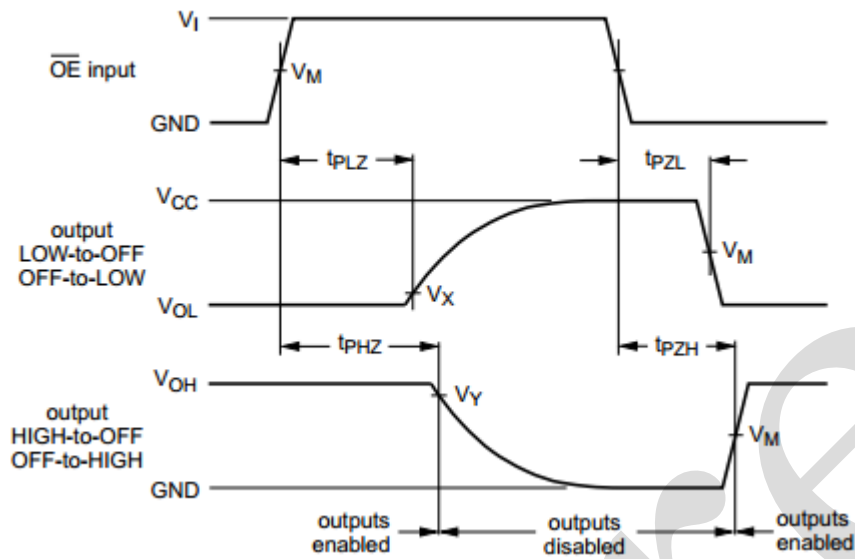


Figure 7. Turn-on and turn-off times

4.3、Measurement Points

Supply voltage	Input	Output		
V_{CC}	V_M	V_M	V_X	V_Y
0.8V to 1.6V	$0.5 \times V_{CC}$	$0.5 \times V_{CC}$	$V_{OL} + 0.1V$	$V_{OH} - 0.1V$
1.65V to 2.7V	$0.5 \times V_{CC}$	$0.5 \times V_{CC}$	$V_{OL} + 0.15V$	$V_{OH} - 0.15V$
3.0V to 3.6V	$0.5 \times V_{CC}$	$0.5 \times V_{CC}$	$V_{OL} + 0.3V$	$V_{OH} - 0.3V$

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	$2 \times V_{CC}$

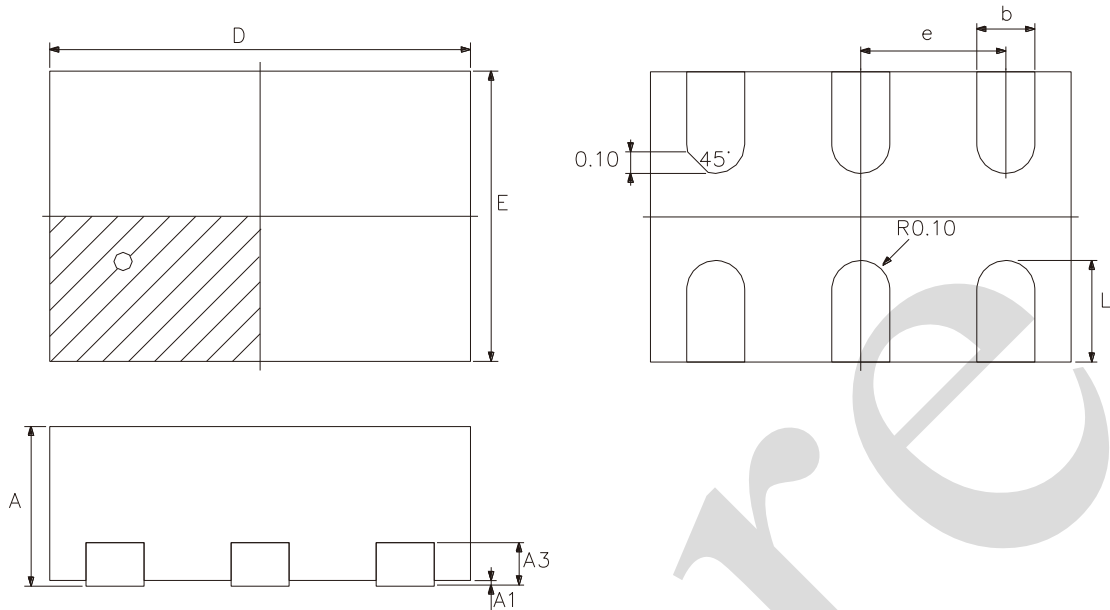
Note:

[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

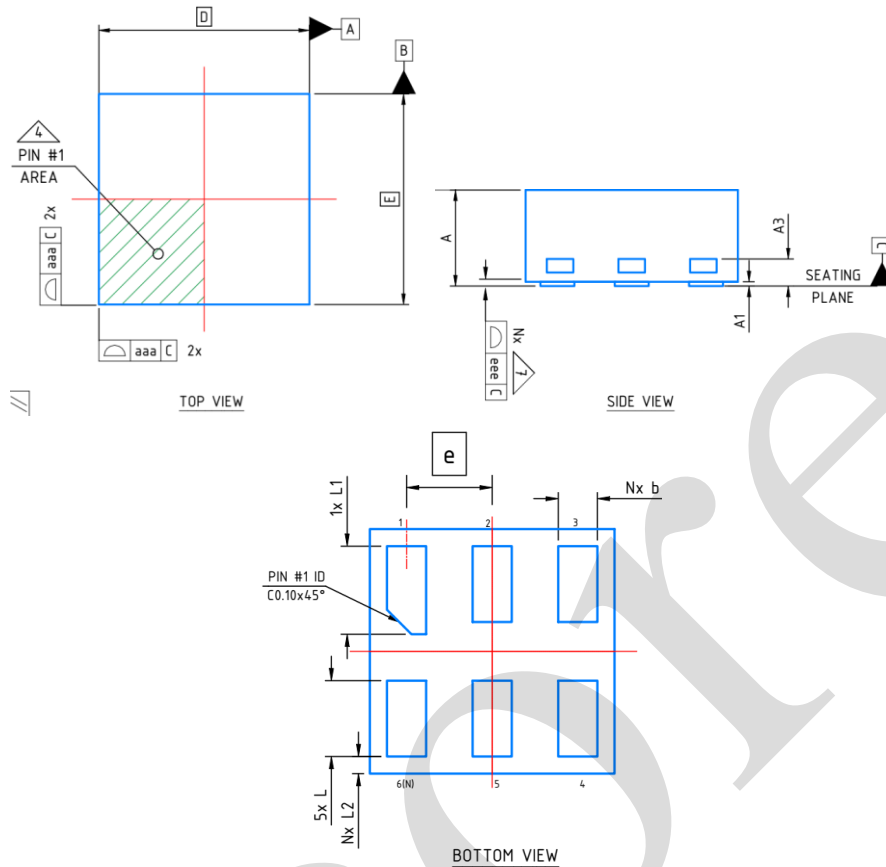
5.1、XSON6(1*1.45)-0.5



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



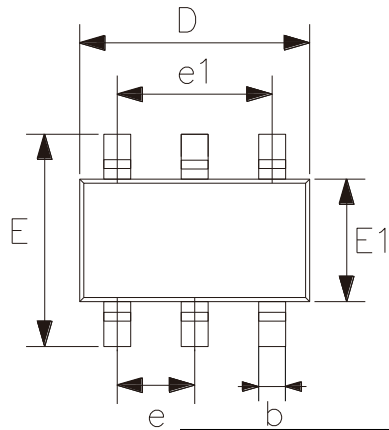
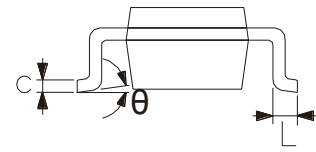
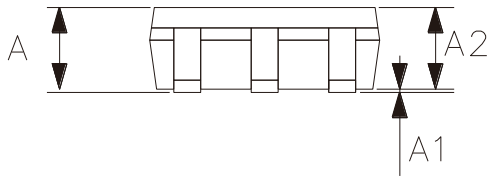
5.2、XSON6(1*1)-0.35



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



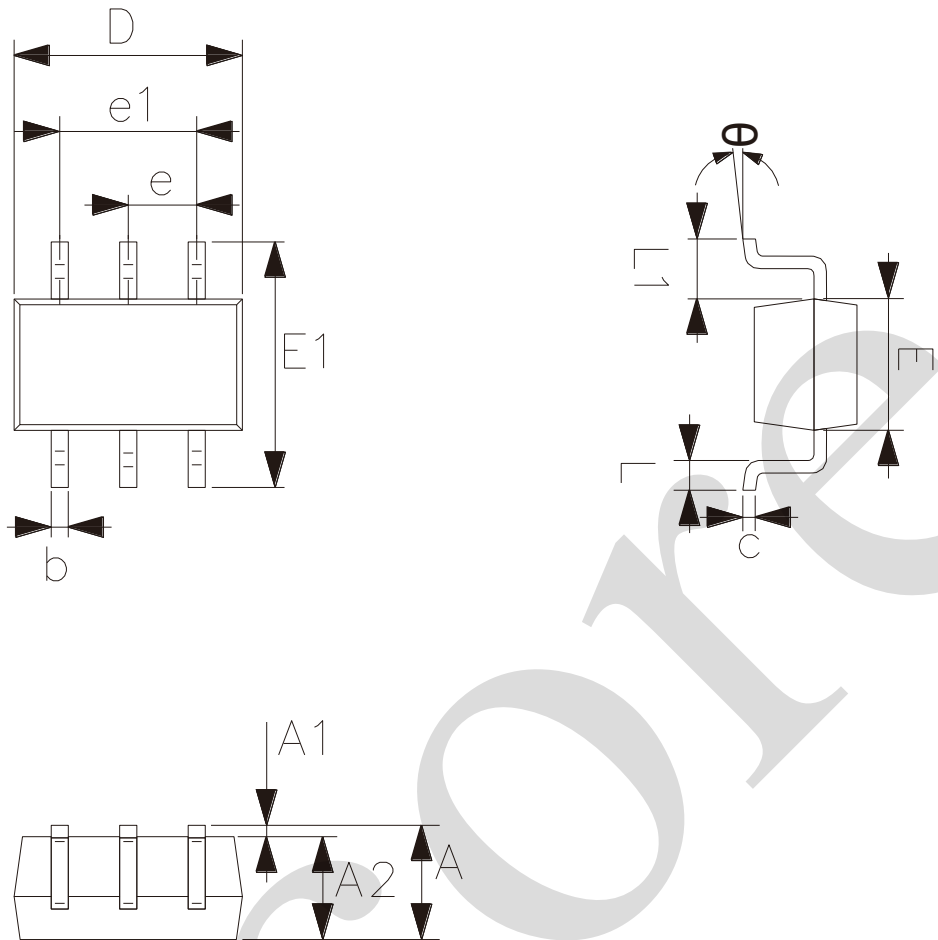
5.3、SOT23-6



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°



5.4、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°



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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