JOCHA14B-L5X Series

Rev.A.1.0

DESCRIPTION:

The products are 10MBd hi

ABSOLUTE MAXIMUM RATINGS (Temperature=25°C)

Parameter	Symbol	Value	Unit

	Isolation Resistance	R_{ISO}	DC500V 40~60%R.H.	-	10^{12}	-	Ω
	Floating Capacitance	C_{IO}	V=0, f=1MHz	-	1	-	pF
Switching Characteristics	Trigger LED Current	I_{FT}	V_{CC}=5V, V_O=V_{OL}	-	-	5	mA
	Propagation Delay Time to Logic Low	t_{PHL}	C_L=15pF, R_L=350Ω, I_F=7.5mA	-	-	60	ns
	Propagation Delay Time to Logic High	t_{PLH}		-	-	60	ns
	Pulse width distortion	$\|t_{PHL}-t_{PLH}\|$		-	-	35	ns
	Common Mode Transient Immunity at Logic High	CM_H	V_{CC}=3.3V, I_F=0mA, V_{CM}=1000V, R_L=350Ω	10	15	-	kV/μs
	Common Mode Transient Immunity at Logic Low	CM_L	V_{CC}=3.3V, I_F=10mA, V_{CM}=1000V, R_L=350Ω	10	15	-	kV/μs
	Rise Time	tr	C_L=15pF, R_L=350Ω, I_F=7.5mA	-	30	-	ns

Output Pull-up Resistor	R_L	330	-	4k	Ω

Fan Out (at R_L ? Fwc

Characteristics Curves

FIG.1: High Level Output Current vs. Ambient Temperature

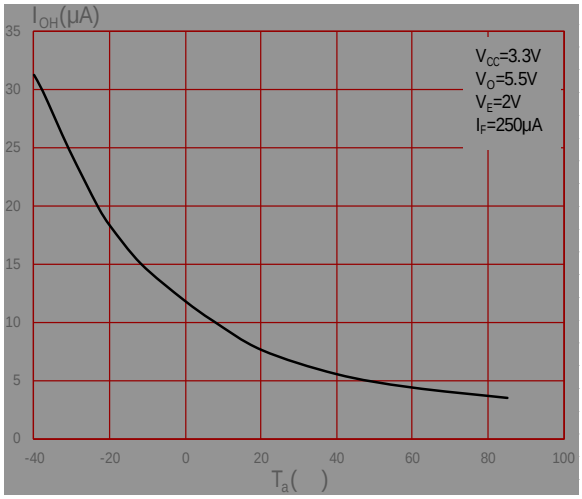


FIG.2: High Level Output Current vs. Ambient Temperature

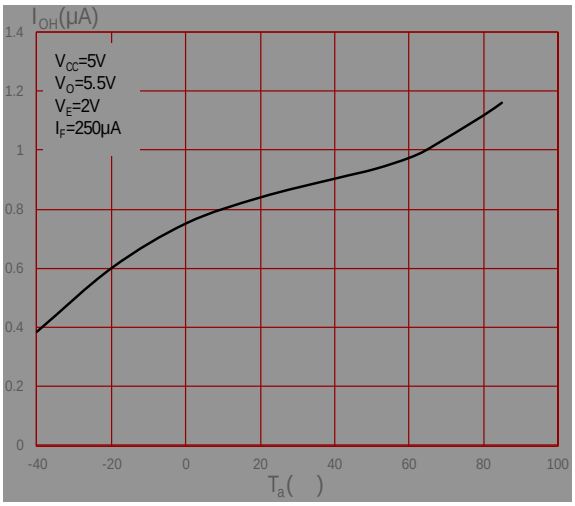


FIG.3: Input Threshold Current vs. Ambient Temperature

FIG.4: Input Threshold Current vs. Ambient Temperature

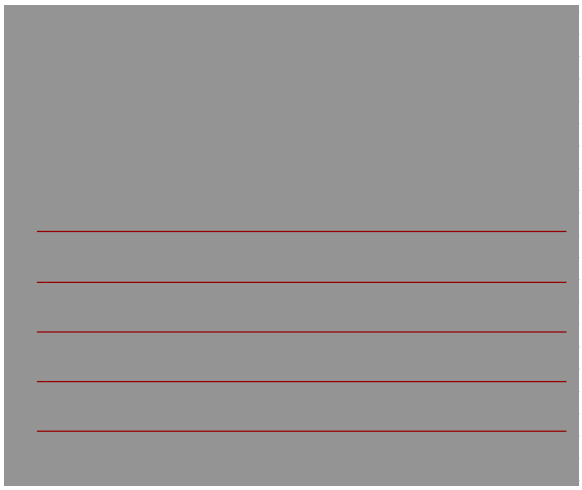


FIG.7: Low Level Output Current vs. Ambient Temperature

FIG.8 Low Level Output Current vs. = א כ l D p m φ D e

FIG.13: Pulse Width Distortion vs. Ambient Temperature

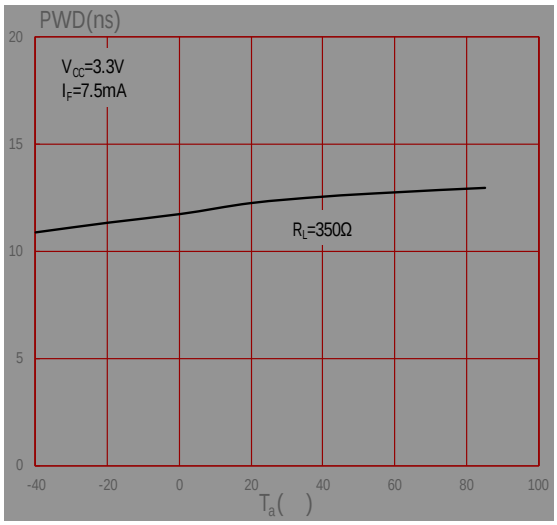
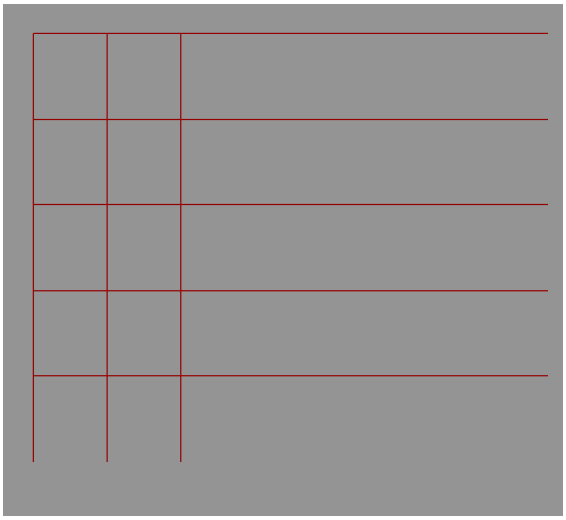
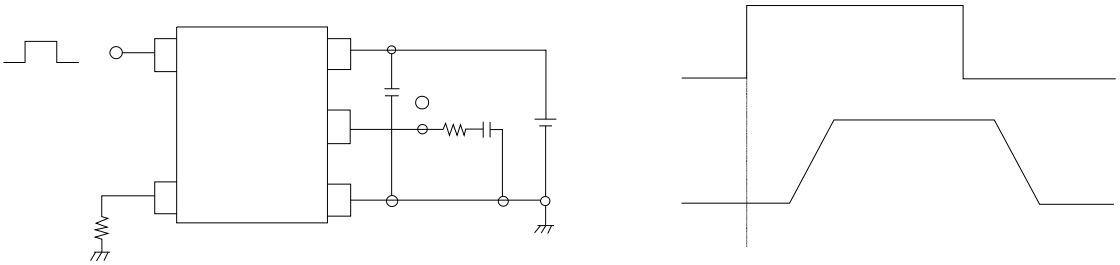


FIG.14: Pulse Width Distortion vs. Ambient Temperature



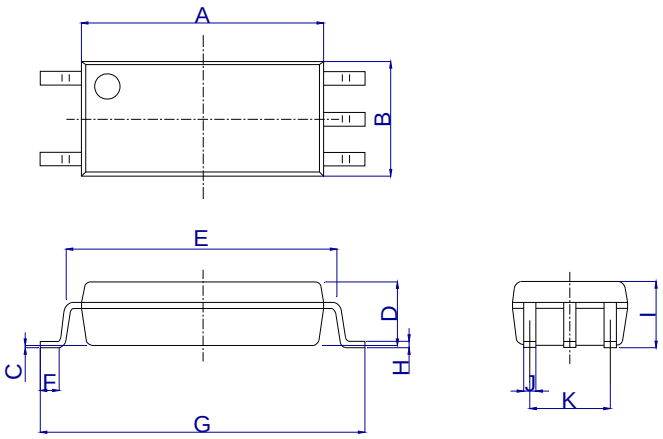
TEST CIRCUITS

Fig.15: Switching Time Test Circuit and Waveform



Package Dimension (Unit: mm)

LSOP5



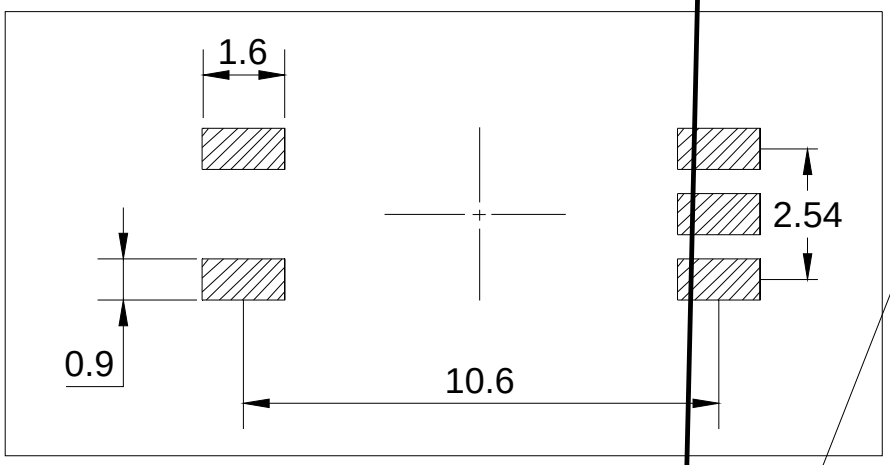
Ref.	Dimensions					
	Millimeters			Inches		
	Min.	Typ.	Max.	Min.	Typ.	Max.
A	7.40		7.80	0.291		0.307
B	3.40		3.80	0.134		0.150
C	0.00		0.20	0.000		0.008
D	1.80		2.20	0.071		0.087
E	8.10		8.70	0.319		0.343
F	0.40		1.00	0.016		0.039
G	9.90		10.50	0.390		0.413
H	0.10		0.30	0.004		0.012
I	1.80		2.40	0.071		0.094
J	0.25		0.55	0.010		0.022
K	2.29		2.79	0.090		0.110

LSOP5W

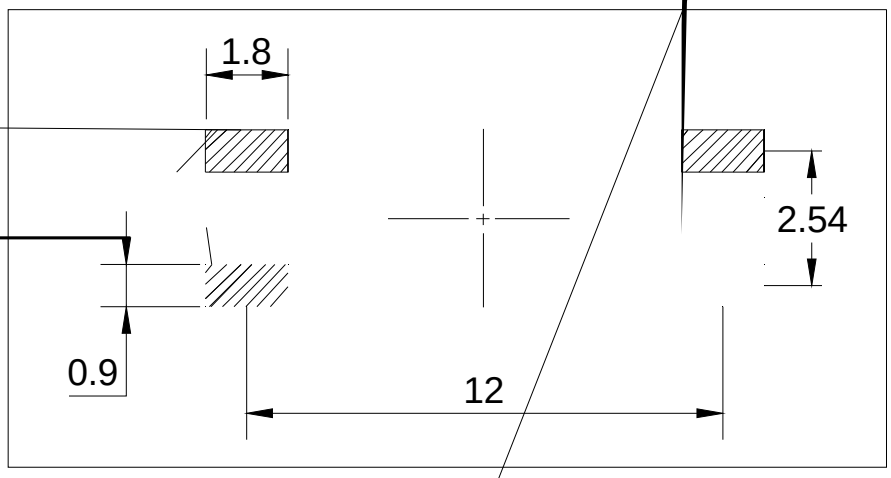
Ref.	Dimensions					
	Millimeters			Inches		
	Min.	Typ.	Max.	Min.	Typ.	Max.
A						
B						
C						
D						
E						
F	0.55			0.022	1. ز	0.02
G						
H						
I						
J						

RECOMMENDED SOLDER MASK (Dimensions in mm unless otherwise stated)

LSOP5



LSOP5W

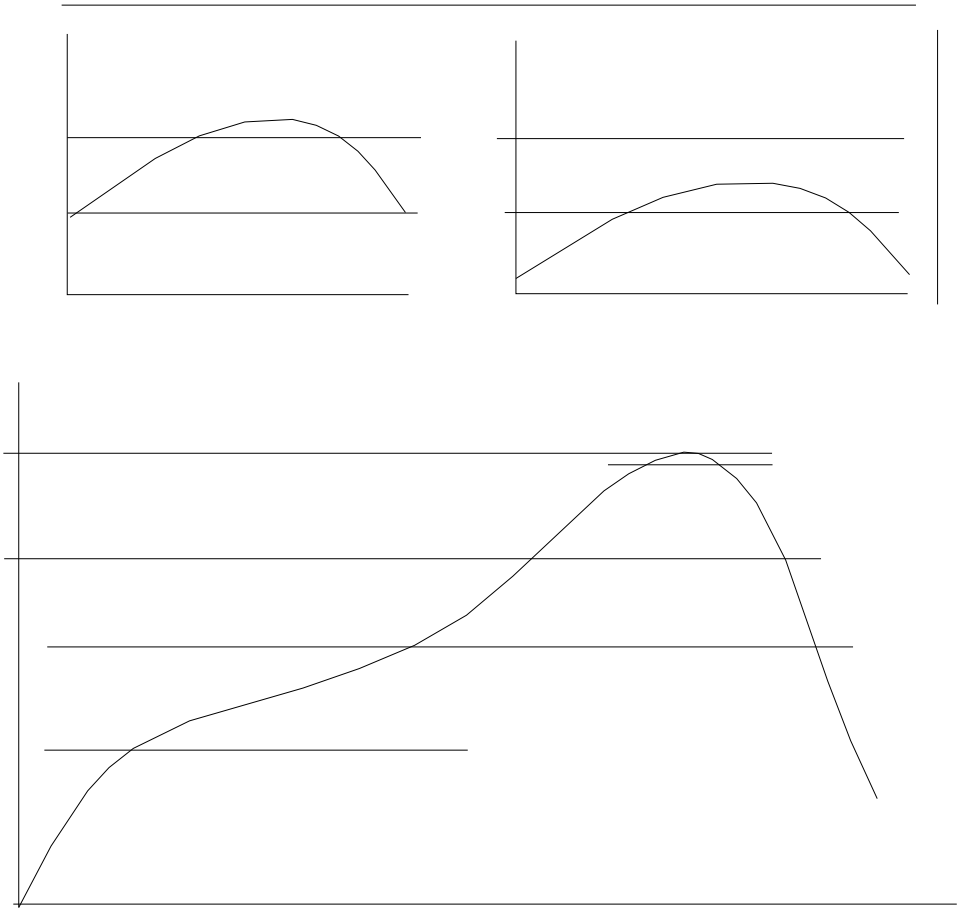


CARRIER TAPE SPECIFICATIONS (Dimensions in mm unless otherwise stated)

Option None

Ref.	Dimensions					
	Millimeters			Inches		
	Min.	Typ.	Max.	Min.	Typ.	Max.
D0						
P0	3.90					
P1						
E	1.65					
T						

REFLOW INFORMATION



Note:

1. Reflow soldering is recommended at the temperatures and times shown, no more than three times.

2. Avoid direct contact between the epoxy body and any tools or surfaces exceeding its maximum storage temperature.

3. Application of pressure on the epoxy body is prohibited at elevated temperatures. In specific scenarios, any applied force must not exceed 2.5N.

4. Ensure the component has cooled to ambient temperature before proceeding with any subsequent manufacturing steps.

5. The component has a shelf life of one year when stored under standard conditions.

6. Recommend storage Temp.: 0~40°C;

Recommend storage humidity: <60%;

MSL level: MSL 1

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