



- ☐ Draft Specifications
- ☐ Preliminary Specifications
- ☒ Final Specifications

Title	Light Sensor Board (I2C)
Model Name	LB-LS02
Doc Version	0

Customer

Approved by

Date

Notice: This Specification is subject to change without notice.

Approved By	Prepared By
Tony Chiu	Frank Kuo
2026-07-28	2026-07-28



REVISION HISTORY

Version	ECN No.	Description of Changes	Date	Prepared
0		Final specification first edition	2026-07-28	Frank Kuo



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1. ABSOLUTE MAXIMUM RATINGS

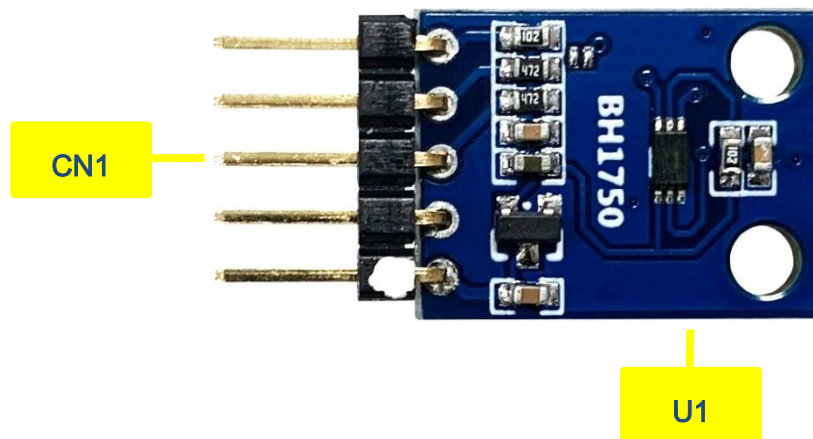
The followings are maximum values which, if exceed, may cause faulty operation or damage to the unit.

Parameter	Symbol	Min.	Max.	Unit
Operating Temperature	T _{op}	-30	+85	°C
Storage Temperature	T _{st}	-40	+85	°C
Operating Humidity	H _{op}	---	85	%RH

Note: A well-designed thermal dissipation structure is recommended.

2. INPUT TERMINAL PIN ASSIGNMENT

2.1. INTERFACE



- CN1 : I2C (Digital Light Sensor) Control
- U1 : Capture Light Sensor

2.2. SIGNAL CONNECTIONS

- I2C (Digital Light Sensor) Control

Location – CN1 : 5pin wafer pitch 2.54mm Dupont or equivalent

Pin Assign and Definition

Pin No.	SYMBOL
1	VCC_3.3V
2	GND
3	SCL
4	SDA
5	ADDR

3. MECHANICAL CHARACTERISTICS

Item		Dimension	Unit	Note
Outline Dimension	Horizontal	18.50	mm	Light Sensor Board : LB-LS02
	Vertical	14.00	mm	
	Depth (min.)	(2.54±0.30 TOP) (0.5±0.30 BOTTOM)	mm	
	USER Hole	Ø3.00*2	mm	
Weight		1.2	g	

4. ENGINEERING DRAWING

USER HOLD : 3.0mm x2

