



SL-T4234IRC150-L325 DATA SHEET

 SPEC. NO.
 :
 SZ18071601

 DATE
 :
 2021/03/19

 REV.
 :
 B/4

Approved By:

Checked By:

Prepared By:

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			I.C. OD D000.01

LIGHT ELECTRONICS CO., LTD.

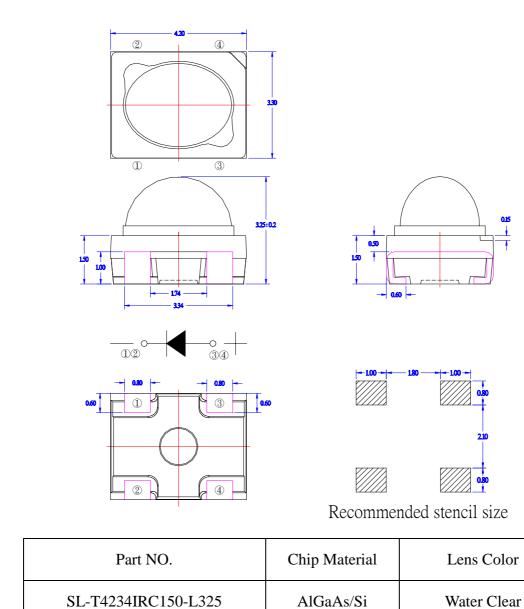


RoHS

Features

- Pb free product—RoHS compliant
- Low power consumption, High efficiency
- Reliable and rugged
- Long life solid state reliability
- ♦ Radiant angle: 70°

Package Dimension



Notes:

- 1. All dimensions are in millimeters.
- 2. Tolerance is ± 0.10 mm unless otherwise noted
- 3. Specifications are subject to change without notice.

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Absolute Maximum Ratings at Ta=25°C

Parameter	MAX.	Unit	
Power Dissipation	150	mW	
Continuous Forward Current	100	mA	
Peak Forward Current ^{*3}	1.0	А	
Reverse Voltage	5	V	
Electrostatic Discharge (HBM) ^{*5}	2000	V	
Moisture Sensitivity Level ^{*1}	5a		
Operating Temperature	-40°C to $+85^{\circ}\text{C}$		
Storage Temperature -40°C		٥°C	
IR Reflow Temperature ^{*4} 260°C for 10 Seconds MA		ls MAX.	

1. Storage:

- (1). Storage requirements before vacuum bag opened: Temperature<30°C, Humidity<65%RH;
- (2). Check air leakage and vacuum bag damage before opened. If there is any issue found, check the humidity indicator card immediately after bag opened:
 - a. If color changes on "10% circle" of the humidity indicator card only and not the circles of 20% and above, components can be used without additional handling;
 - b. If color changes on both 10% and 20% circles but not the circles of 30% and above, components must be dehumidified according to the conditions of bullet (5);
 - c. If color changes on 10%, 20%, and 30% circle or above, the product should be returned to the supplier for high temperature dehumidification;
- (3). After bag opened, manual soldering or reflow process must follow the following requirements:
 - a. Complete soldering / reflow within 24 hours;
 - b. Requirements of working environment: Temperature<30°C, Humidity<60%RH;
- (4). If the working condition is outside (3)a or (3)b requirement, the components must be dehumidified according to the conditions of bullet (5);
- (5). Low temperature dehumidification: temperature 60 ± 5 °C, 24 hours;
- (6). Shelf life: 60 days. If it's over 60 days from the production date on the package label, the components must be dehumidified according to the condition of bullet (5). If customer is unable to dehumidify, return components to LIGHT for dehumidification.

2. Cleaning:

Use alcohol-based cleaning solvents such as isopropyl alcohol to clean the LED if necessary.

3. Peak Forward Current:

Condition for is IFP pulse: Pulse Width ≤100µs and duty ≤1%.

4. IR Reflow Temperature:

It is the Plate Temperature.

5. Caution in ESD:

Static Electricity and surge damages the LED. It is recommend to use a wrist band or anti-electrostatic glove when handling the LED. All devices, equipment and machinery must be properly grounded.





Electrical Optical Characteristics at Ta=25°C

Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Condition	
Dodiant Intensity	T.		21.5		mW/sr	I _F =20mA (Note 1,3)	
Radiant Intensity	Ie	37.5	54		mW/sr	I _F =50mA (Note 1,3)	
Viewing Angle(X)	$2\theta_{1/2}$		70		Deg.	(Note 2)	
Viewing Angle(Y)			25				
Peak Wavelength	λp		940		nm	I _F =50mA	
Spectral Line Half- Width	$ riangle \lambda$		50		nm	I _F =50mA	
Forward Voltage	$V_{\rm F}$		1.35	1.60	V	I _F =50mA	
Reverse Current	I _R			10	μΑ	V _R =5V	

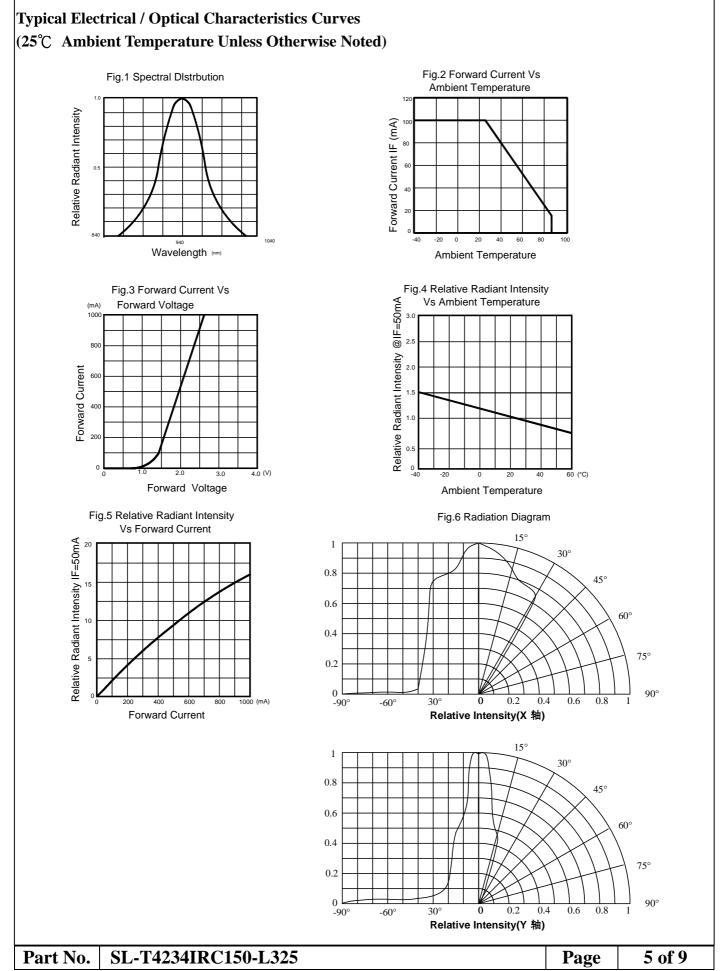
Note:

- 1. Point sources of the amount of radiation per unit time in a given direction within the unit solid Angle radiated energy.
- 2. $\theta_{1/2}$ is the off-axis angle at which the Radiant Intensity is half the axial Radiant Intensity.
- 3. The Ie guarantee should be added $\pm 15\%$ tolerance.

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LG-QR-R009-01

LIGHT



Infrared Emitting Diode Specification

Commodity: Infrared emitting diode

•Radiant Intensity Bin Limits (At 50mA)

BIN CODE	Min.(mW/sr)	Max. (mW/sr)
15	37.5	45
16	45	54
17	54	64.8
18	64.8	77.76
19	77.76	93.3

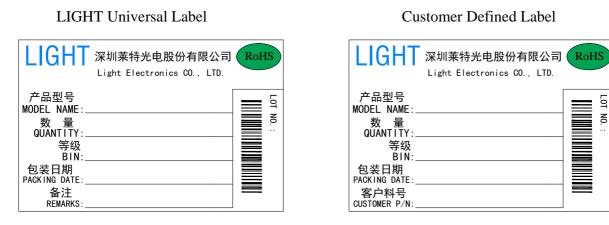
NOTE: The Ie guarantee should be added $\pm 15\%$ tolerance.



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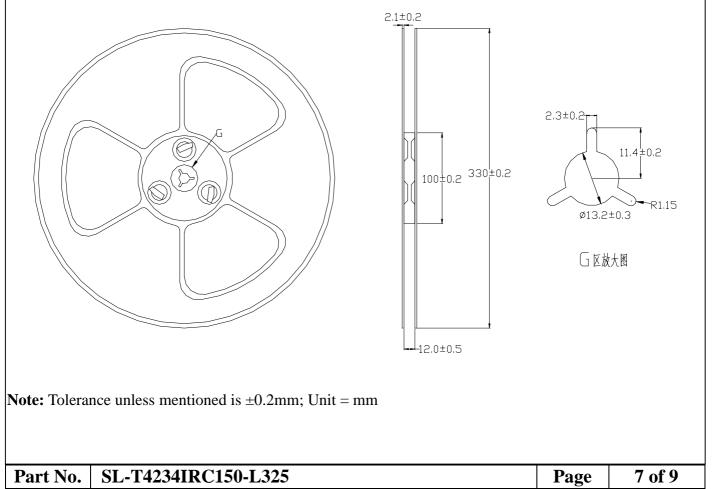


Label Explanation



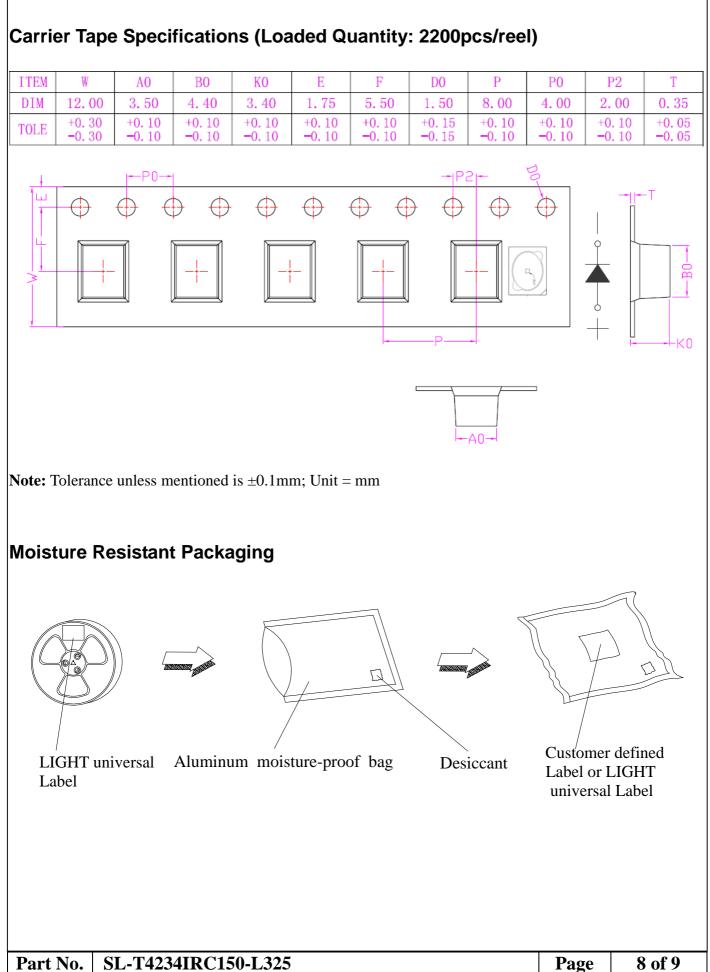
MODEL NAME/产品型号	QUANTITY/包装数量	
BIN./分光等级	PACKING DATE/包装日期	
CUSTOMER P/N/客户料号	LOT NO./生产批号	
REMARKS/备注	/	

Reel Dimensions



LIGHT

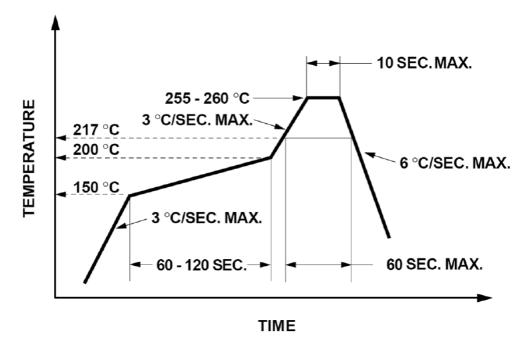








Suggest IR Reflow Condition For Lead Free



- 1. Reflow soldering should not be done more than two times.
- 2. When soldering, do not put stress on the LEDs during heating.

Soldering iron

- 1. When hand soldering, the temperature of the iron must less than 300° C for 3 seconds.
- 2. The hand solder should be done only once.

Repairing

Repair should not be done after the LEDs have been soldered. When repairing is unavoidable, a double-head soldering iron should be used (as below figure). It should be confirmed beforehand whether the characteristics of LEDs will or will not be damaged by repairing.

