



SL-T3020IRC050-L223-C-S DATA SHEET

 SPEC. NO.
 : SZ23013001

 DATE
 : 2023/01/30

 REV.
 : A/0

Approved By: Checked By: Prepared By:

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Features

Pb free product—RoHS compliant

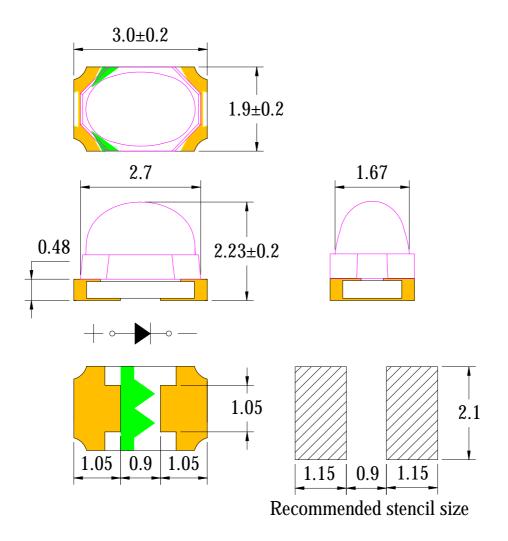
Low power consumption, High efficiency

Reliable and rugged

Long life – solid state reliability

Radiant angle: 92°

Package Dimension



Part NO.	Chip Material	Lens Color
SL-T3020IRC050-L223-C-S	AlGaAs/Si	Water Clear

Notes:

- 1. All dimensions are in millimeters.
- 2. Tolerance is ± 0.10 mm unless otherwise noted.

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Absolute Maximum Ratings at Ta=25

Parameter	MAX.	Unit	
Power Dissipation	80 mW		
Continuous Forward Current	50	mA	
Peak Forward Current*2	500	mA	
Reverse Voltage	5	V	
Electrostatic Discharge (HBM)*3	4000 V		
Moisture Sensitivity Level*1	5		
Operating Temperature	-40 to +85		
Storage Temperature	-40 to + 100		
IR Reflow Temperature	260 for 10 Seconds MAX.		

1. Storage and operating:

- (1). Storage requirements before vacuum bag opened: Temperature<30 , 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 48 hours;
 - b. Requirements of working environment: Temperature<30 , Humidity<60%RH;
- (4). If the working condition is outside (3)a requirement, the components must be dehumidified according to the conditions of bullet (5);
- (5). Low temperature dehumidification: temperature 60±5 , at least 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. Peak Forward Current:

3. Caution in ESD:

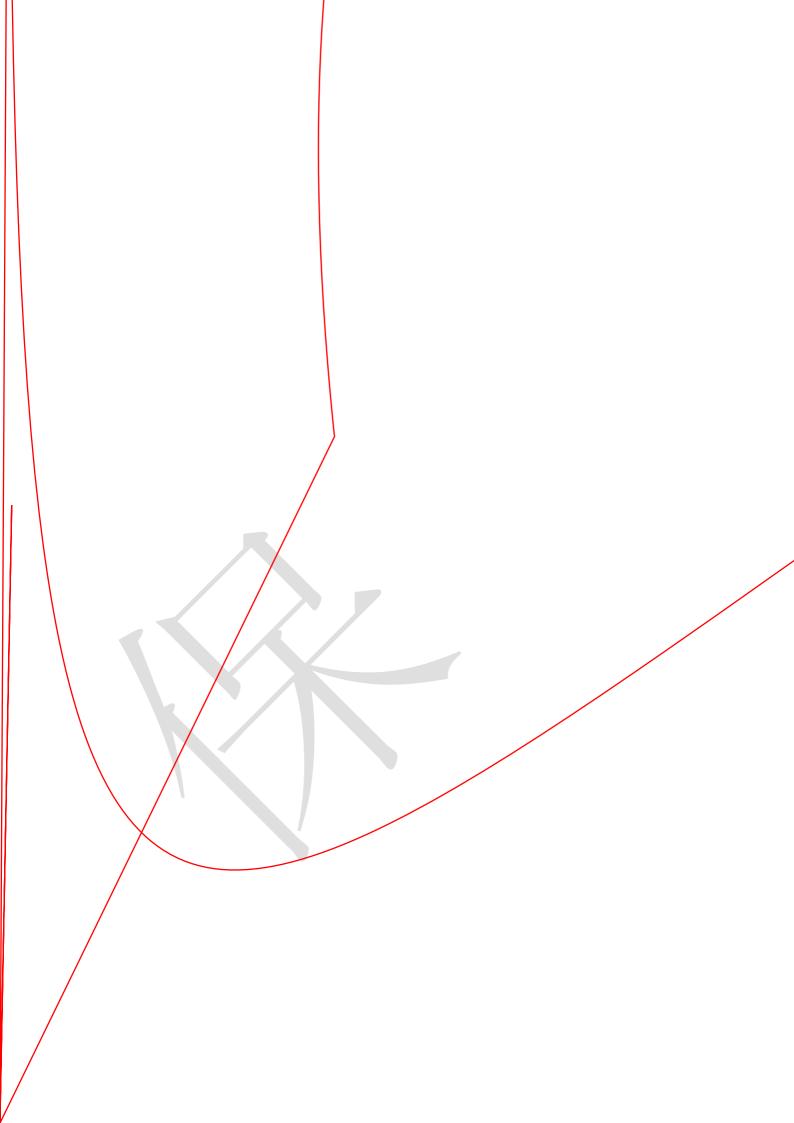
Static Electricity and surge damages the LED. It is recommend to use a wrist band or anti-electrostatic glove when handling the LED. All devices, equipment and machinery must be properly grounded.

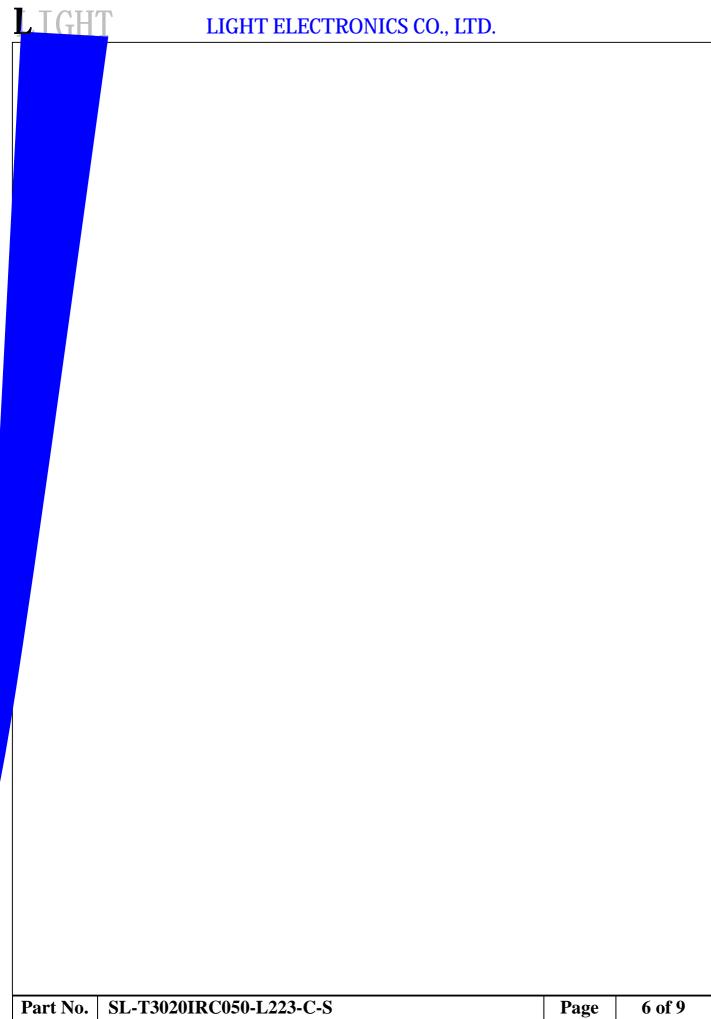
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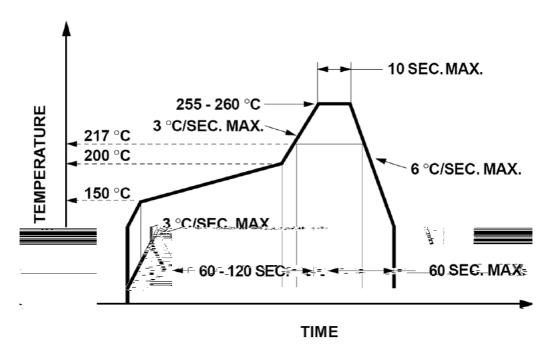


Carrier Tape Specifications (Loaded Quantity: 5000pcs/reel)		
Note: Tolerance unless mentioned is ±0.1mm; Unit = mm		
Moisture Resistant Packaging		
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Suggest IR Reflow Condition For Lead Free



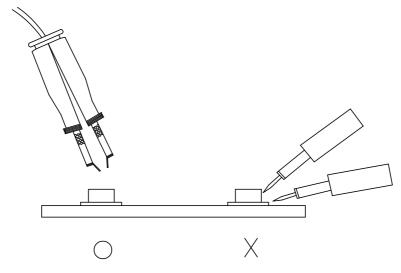
- 1. Reflow soldering should not be done more than two times.
- 2. When soldering, do not put stress on the LEDs during heating.

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.



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