



# SL-T1615IRGRC020-L55 DATA SHEET

 SPEC. NO.
 :
 SZ21050601

 DATE
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 2022/12/3

 REV.
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Approved By:

Checked By:

Prepared By:

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## LIGHT ELECTRONICS CO., LTD.

# LIGHT

### Features

Pb free product—RoHS compliant Low power consumption, High efficiency Reliable and rugged Long life – solid state reliability Viewing angle: 120°

### **Package Dimension**



0.15

Recommended stencil size

Part NO.	Lens Color	Source Color
SL-T1615IRGRC020-L55	Water Clear	Infrared/Green/Red

Notes:

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







#### Absolute Maximum Ratings at Ta=25

Parameter	Rating			Unit	
	Infrared	Green	Red	Unit	
Power Dissipation	80	108	78	mW	
Peak Forward Current <sup>*2</sup>	150	100	100	mA	
Continuous Forward Current	50	30	30	mA	
Reverse Voltage	5	5	5	V	
Electrostatic Discharge (HBM) <sup>*3</sup>	4000	2000	4000	V	
Moisture Sensitivity Level <sup>*1</sup>	4				
Operating Temperature Range	-40 to + 85				
Storage Temperature Range	-40 to + 100				
Reflow Temperature	260 Max. for 10 Seconds				

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 72 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: 180 days. If it's over 180 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:

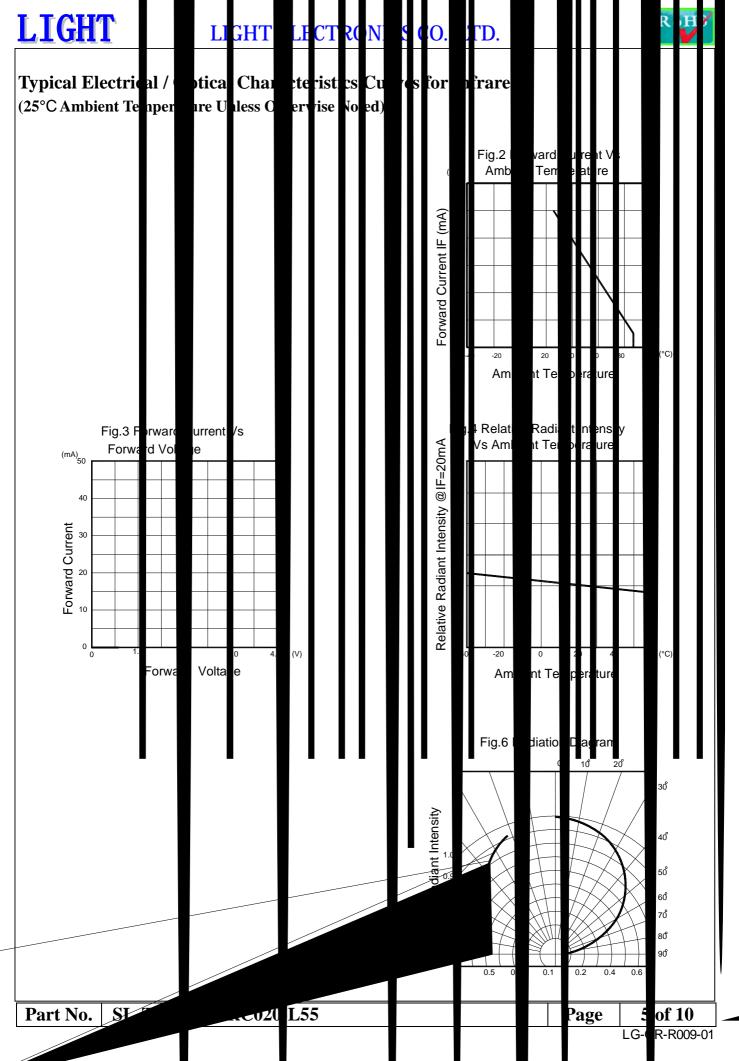
#### 3. Caution in ESD:

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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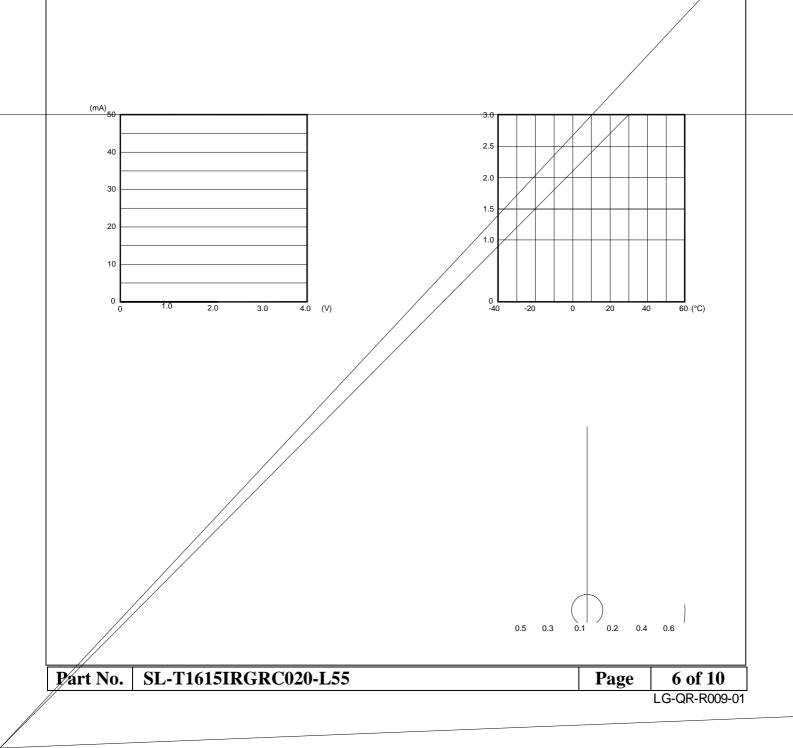


# LIGHT

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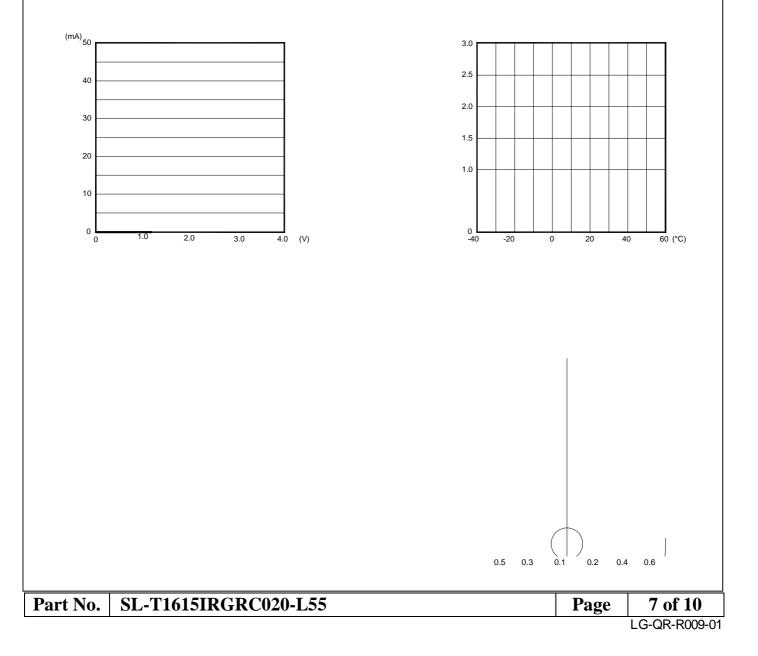
**Typical Electrical / Optical Characteristics Curves for Green** (25°C Ambient Temperature Unless Otherwise Noted)



# LIGHT



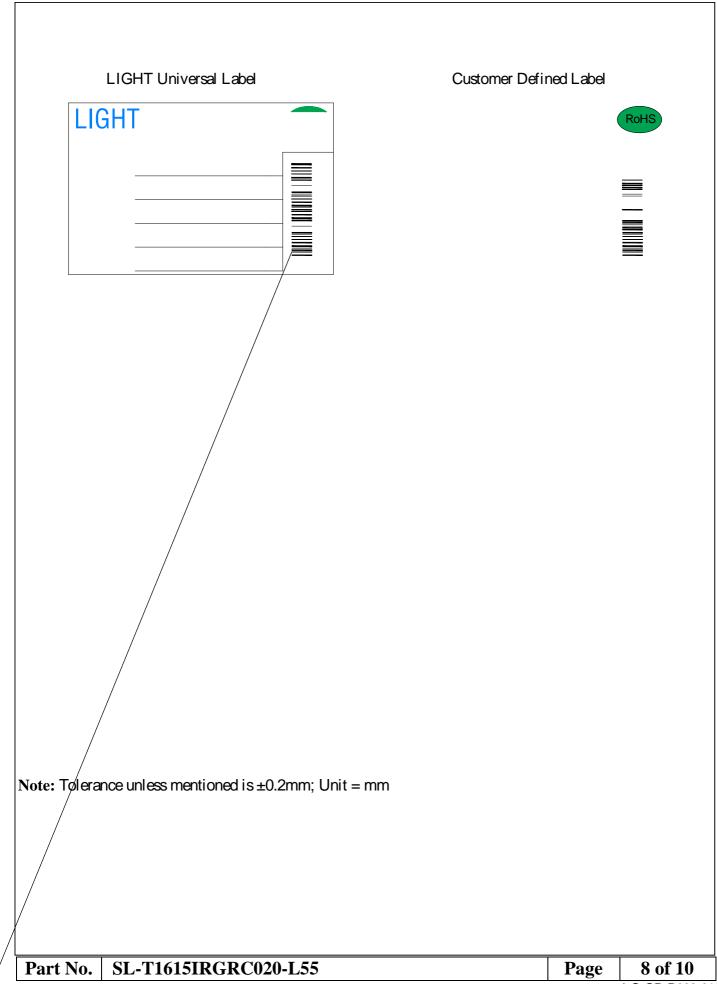
**Typical Electrical / Optical Characteristics Curves for Red** (25°C Ambient Temperature Unless Otherwise Noted)

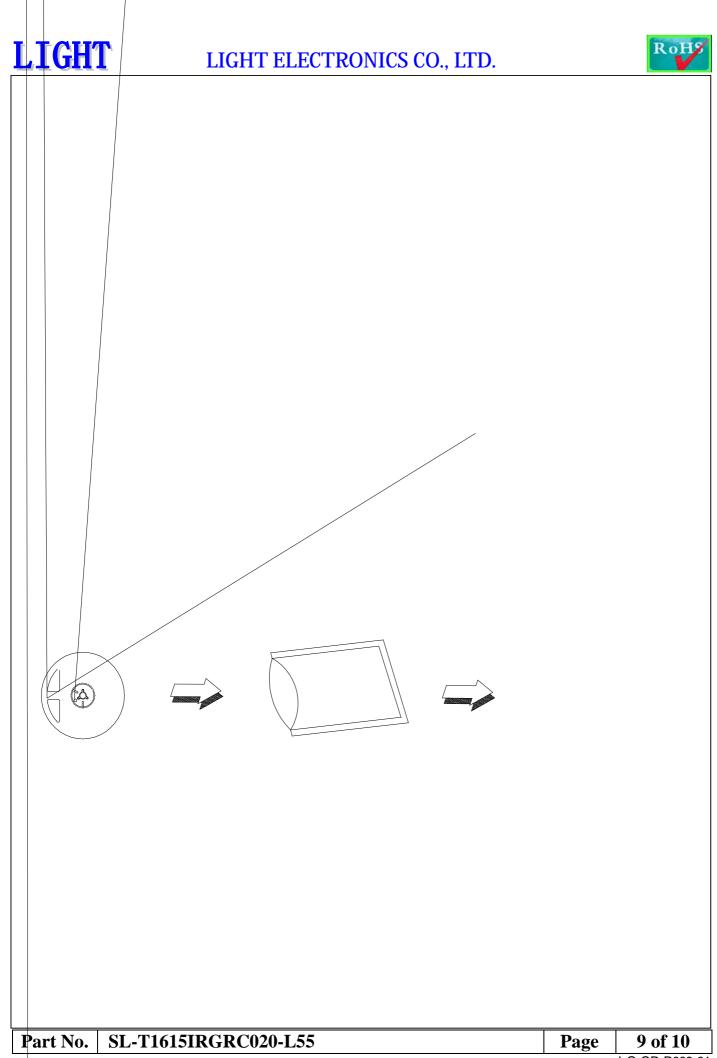




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RoH

### Suggest IR Reflow Condition For Lead Free

