



## Features

Pb free product—RoHS compliant  
Low power consumption, High efficiency  
Reliable and rugged  
Long life – solid state reliability  
Radiant angle: 78°/20°

## Package Dimension

Part NO.	Chip Material	Lens Color
SL-T3020IRC050-L236-A-S	AlGaAs/Si	Water Clear

### Notes:

1. All dimensions are in millimeters.
2. Tolerance is  $\pm 0.10\text{mm}$  unless otherwise noted.

### Absolute Maximum Ratings at Ta=25

Parameter	MAX.	Unit
Power Dissipation	180	mW
Continuous Forward Current	100	mA
Peak Forward Current <sup>*2</sup>	1000	mA
Reverse Voltage	5	V
Electrostatic Discharge (HBM) <sup>*3</sup>	4000	V
Moisture Sensitivity Level <sup>*1</sup>	4	
Operating Temperature	-40 to + 85	
Storage Temperature	-40 to + 100	
IR Reflow Temperature	260 for 10 Seconds MAX.	

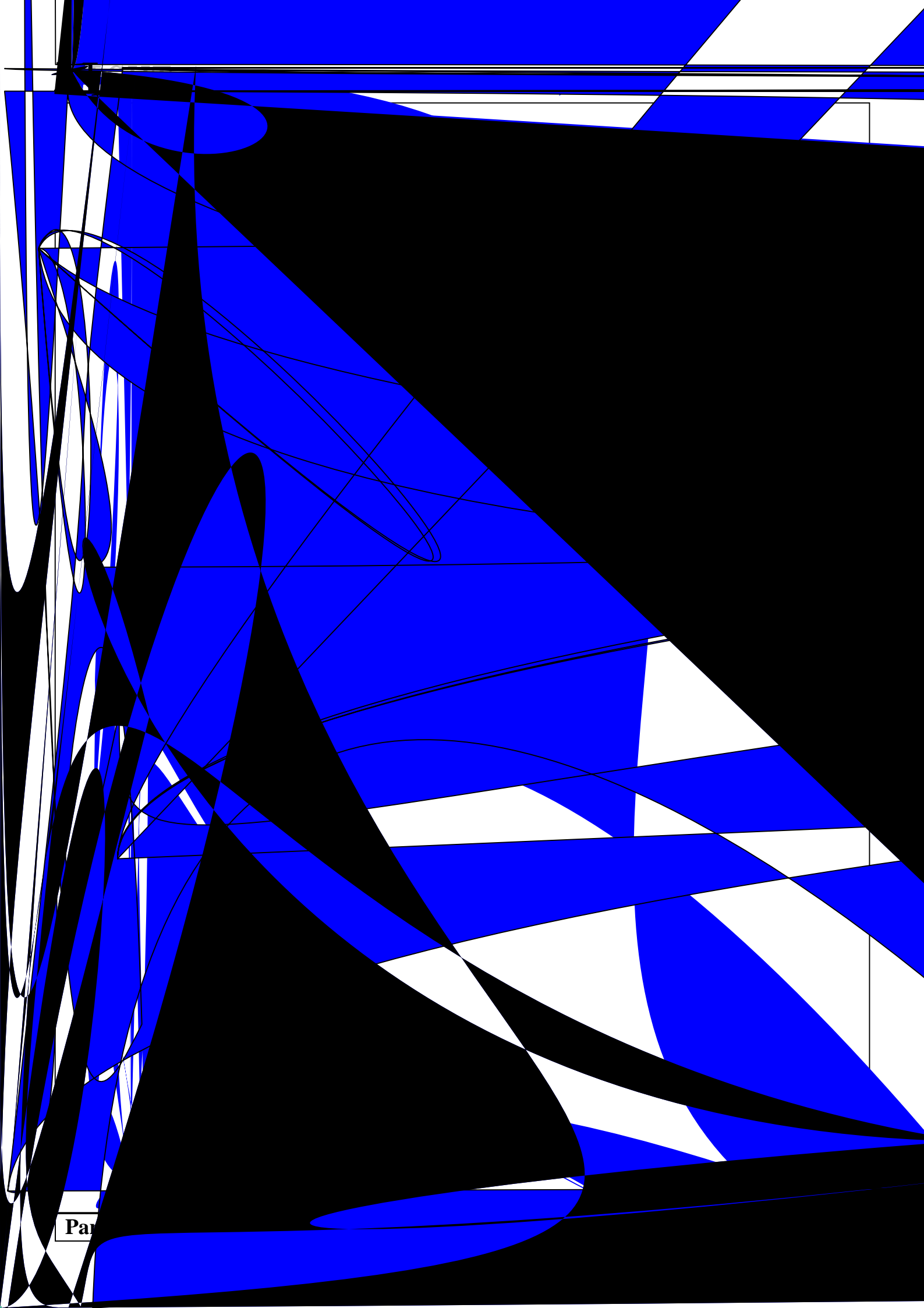
#### 1. Storage and operating:

- (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 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.



Par




### Radiant Intensity Bin Code (IF=50mA)

BIN CODE	Min. (mW/sr)	Max. (mW/sr)
31	22	26
32	26	31.9
33	31.9	37
34	37	44
35	44	53

**NOTE:** The I<sub>e</sub> guarantee should be added  $\pm 15\%$  tolerance.

### Label Explanation

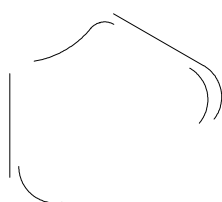
LIGHT Universal Label

LIGHT		RoHS
_____		
_____		
_____		
_____		

Customer Defined Label

LIGHT		RoHS
_____		
_____		
_____		
_____		

### Reel Dimensions





SL-T302



