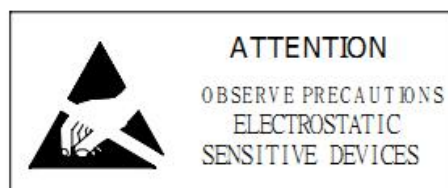
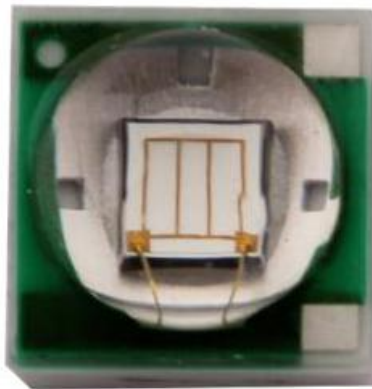


TOP LED:3535LGC52D140L38

(3535SMD LED-3w Green LED)

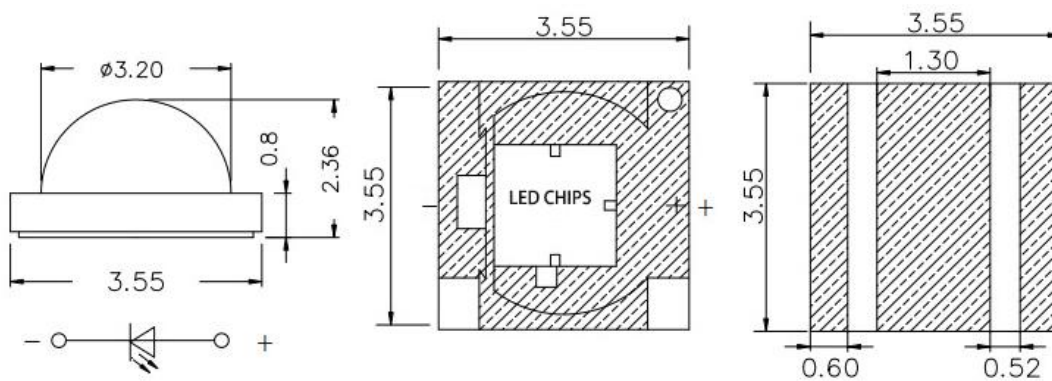


CUSTOMER APPROVED SIGNATURES	SALES APPROVED	APPROVED BY	CHECKED BY	PREPARED BY

1. Features

- Color :520nm Green LED
- Chip Size:930um*930um
- Lens: Water clear
- High reliability,High radiant intensity
- Low forward voltage
- Meet ROHS, Green Product
- Compatible With Infrared Reflow Solder And Wave Solder Process

2. Package Profile & Soldering PAD Suggested



- Notes:
1. All dimensions are in millimeters ;
 2. Tolerance is ± 0.10 mm unless otherwise noted.
 3. The mark is Anode.

3. Absolute Maximum Ratings At Ta=25°C

Parameter	Symbol	Rating	Unit
Power Dissipation	Pd	1000	mW
Pulse Forward Current	IFP	1000	mA
Forward Current	IF	≤700	mA
Reverse Voltage	VR	5	V
Junction Temperature	Tj	125	°C
Operating Temperature	Topr	-40 ~ +80	°C
Storage Temperature Range	Tstg	-40 ~ +100	°C
Soldering Temperature	Tsol	260	°C
Electro-Static-Discharge(HBM)	ESD	2000	V
Service life under normal conditions	Time	60000	H
Warranty	Time	2	Years
Antistatic bag	Piece	1000	Bag

***Pulse Forward Current Condition:Duty 1% and Pulse Width=10us.**

***Soldering Condition:Soldering condition must be completed with 3 seconds at 260°C**

4. Electrical Optical Characteristics At Ta=25°C

Parameter	Symbol	Min	Typ	Max	Unit	Test Condition
Forward Voltage	VF	3.0		3.2	V	IF=700mA
		3.2		3.4		
		3.4		3.6		
Luminous Intensity	IV	100		120	lm	IF=700mA
		120		140		
		140		160		
Peak Wavelength	λP		518		nm	IF=700mA
Dominant Wavelength	λD	515	520	530	nm	IF=700mA
Half Width	$\Delta\lambda$		22		nm	IF=700mA
Viewing Half Angle	2 θ 1/2		120		deg	IF=700mA

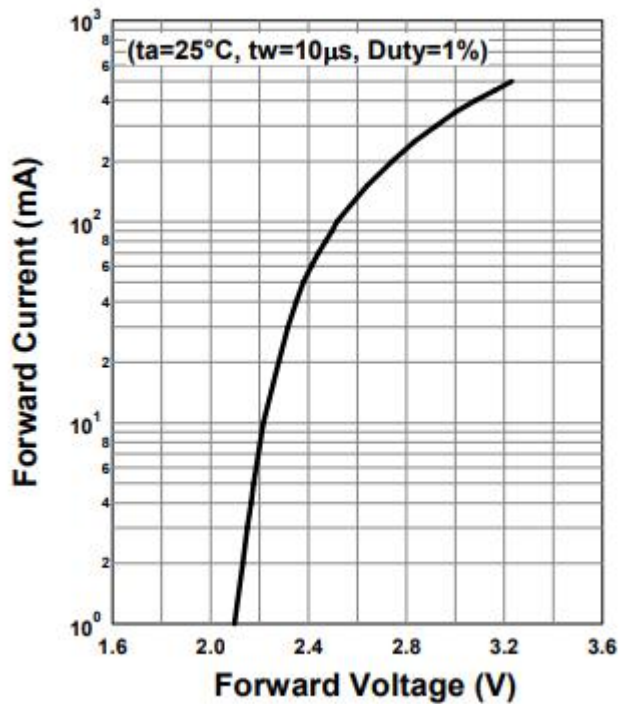
*Luminous Intensity is measured by ZWL600.

* θ 1/2 is the off-axis angle at which the luminous intensity is half the axial luminous intensity.

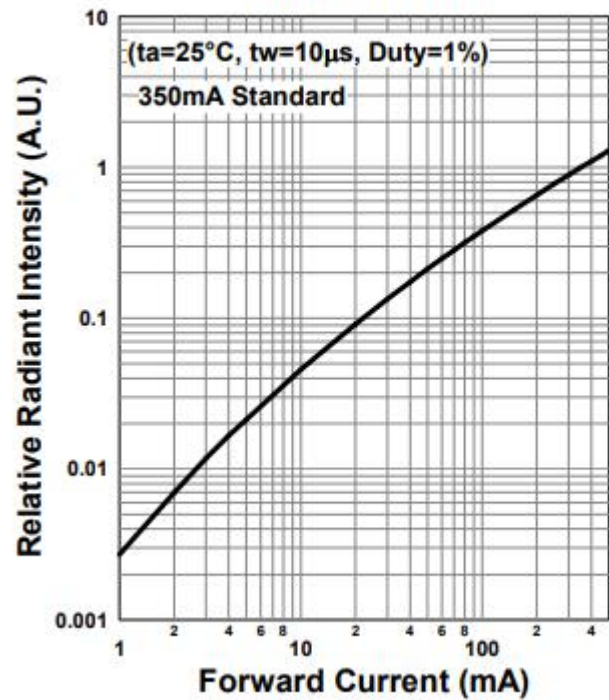
* λP is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.

5. Typical Electrical-Optical Characteristics Curves

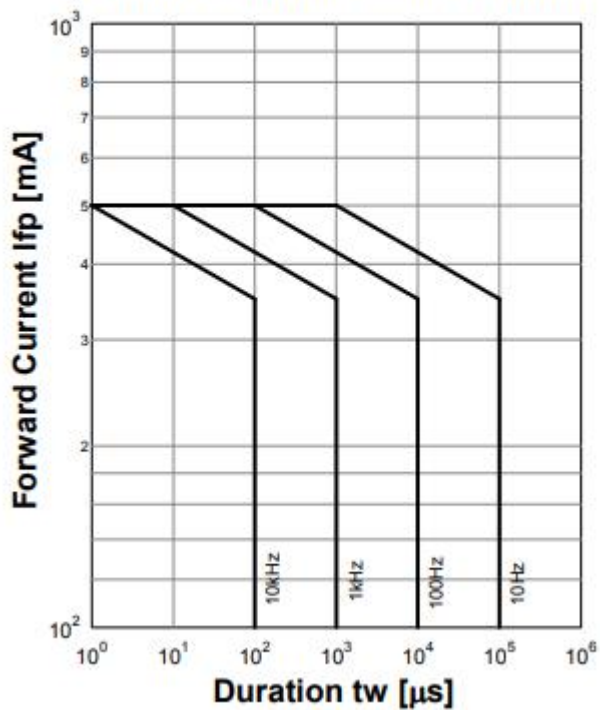
Forward Current - Forward Voltage



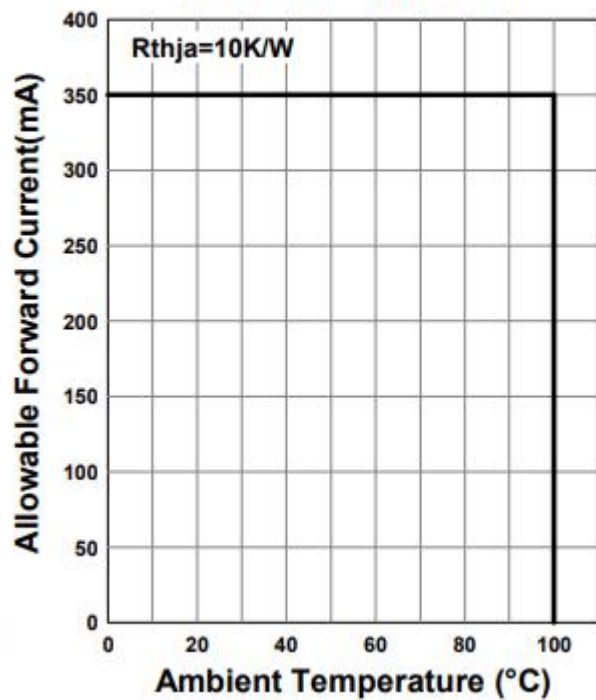
Relative Radiant Intensity - Forward Current

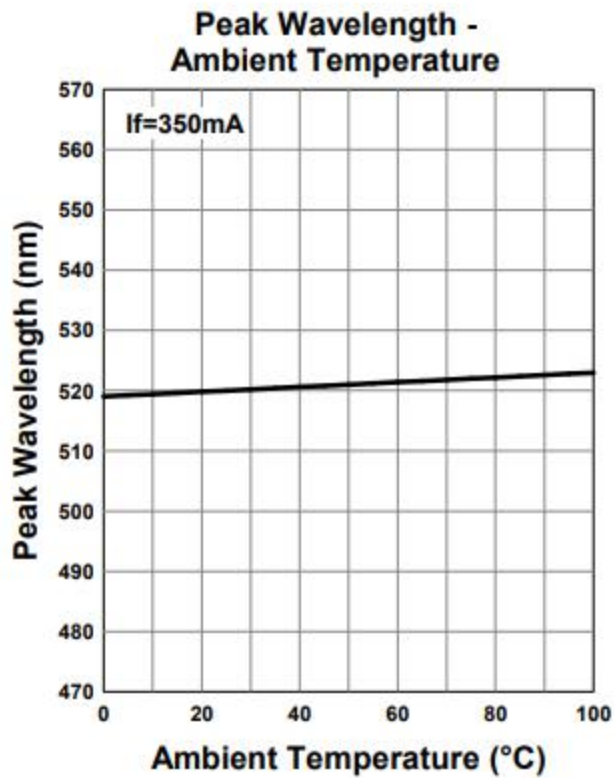
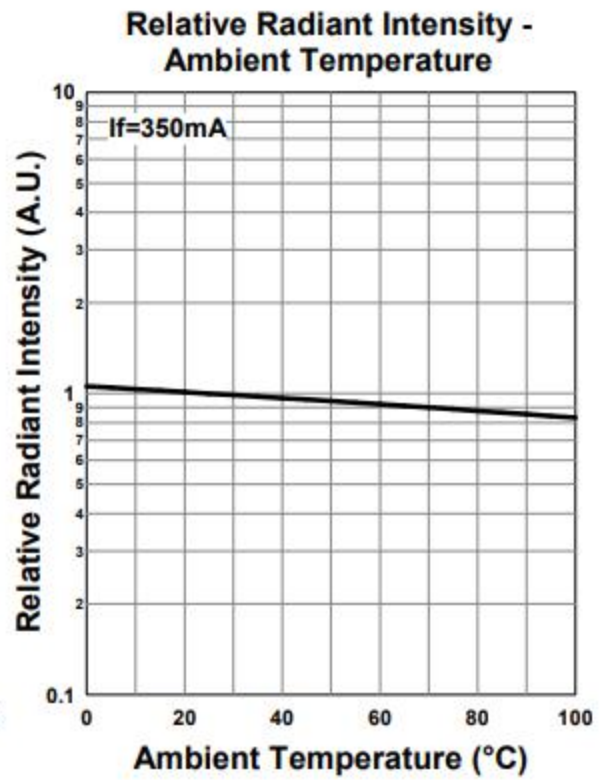
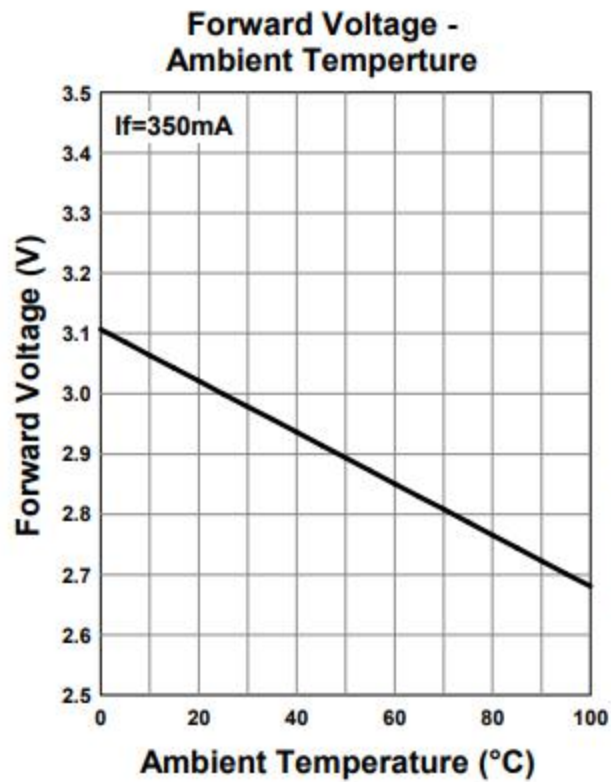


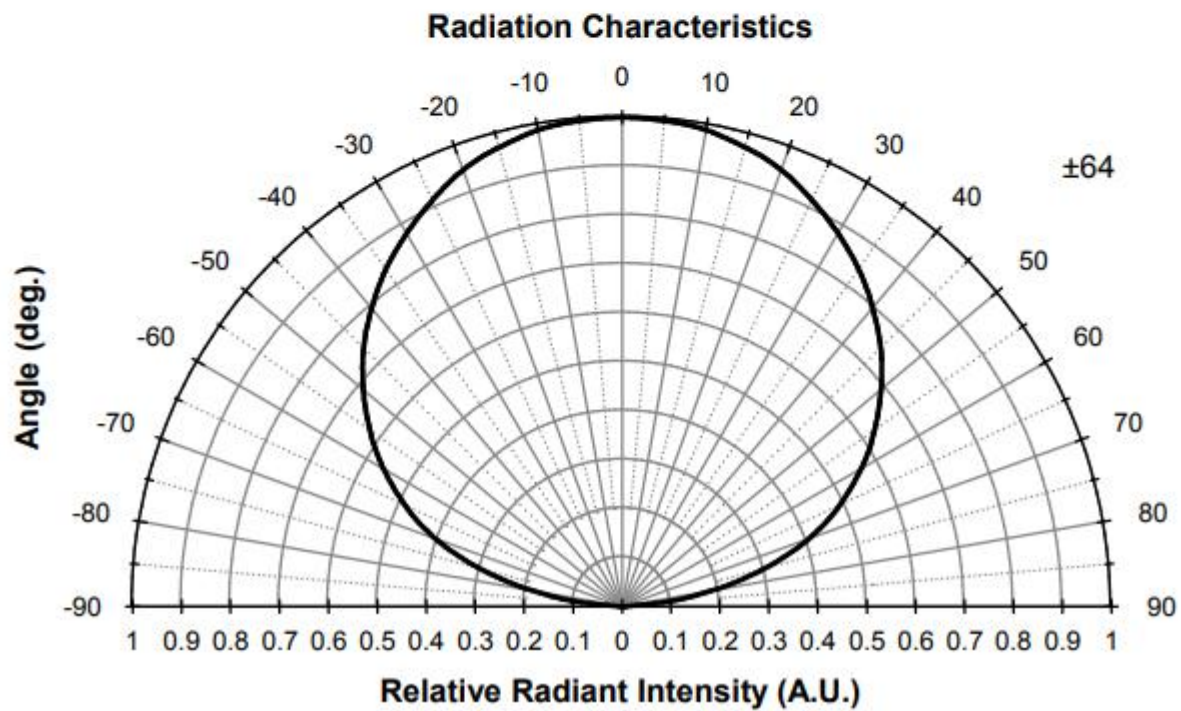
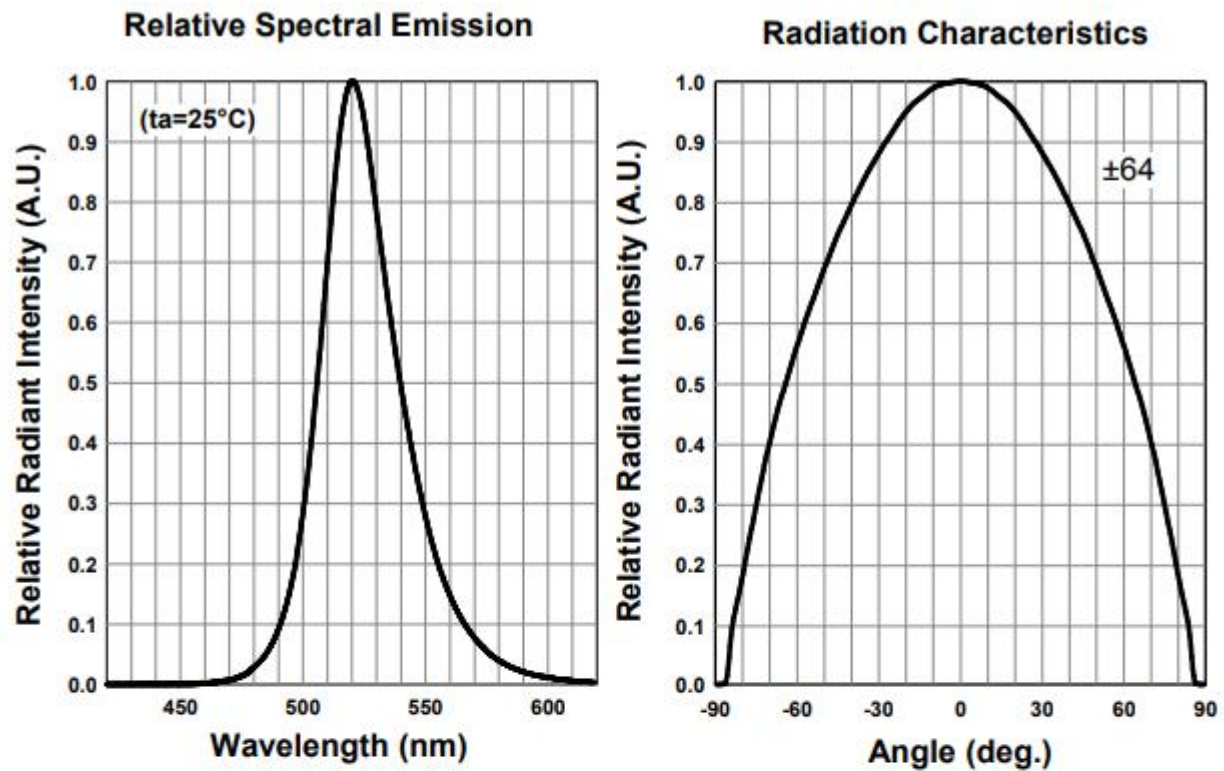
Forward Current - Pulse Duration



Allowable Forward Current - Ambient Temperature

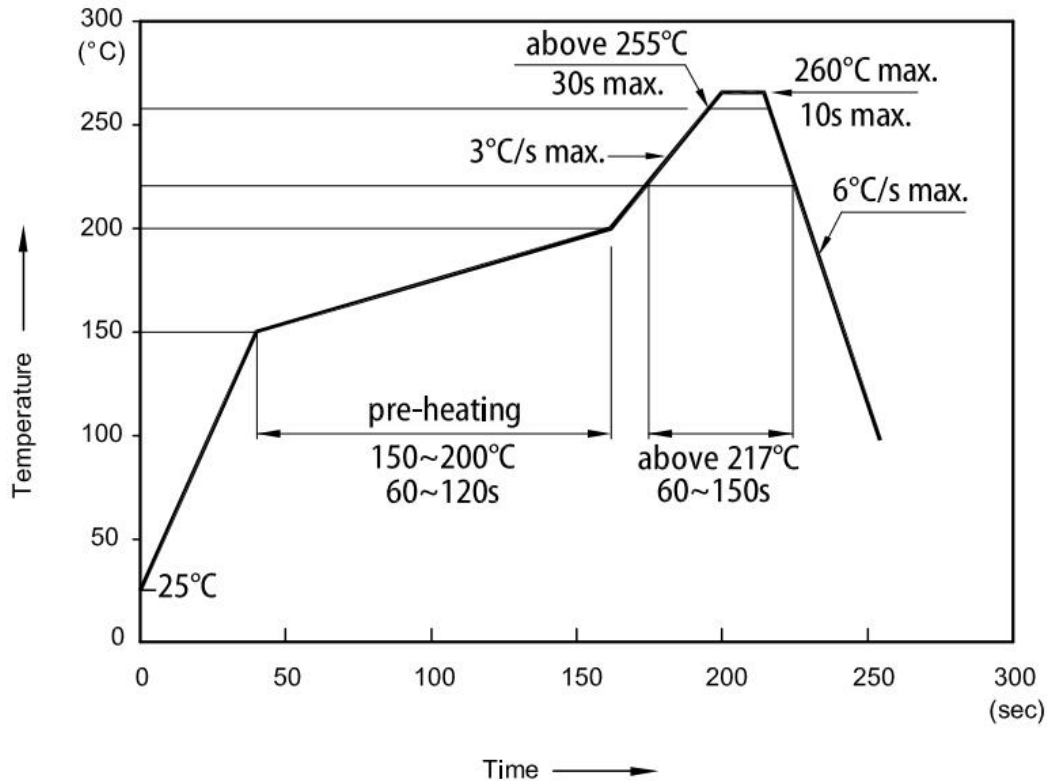






6.SMD LED Technical Data

Reflow soldering profile for LEAD-FREE SMD process



Notes:

1. Don't cause stress to the LEDs while it is exposed to high temperature.
2. The maximum number of reflow soldering passes is 2 times
3. Reflow soldering is recommended. Other soldering methods are not recommended as they might cause damage to the product

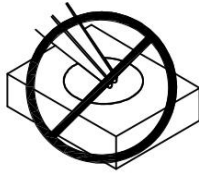
HANDLING PRECAUTIONS

Compare to epoxy encapsulant that is hard and brittle, silicone is softer and flexible. Although its characteristic significantly reduces thermal stress, it is more susceptible to damage by external mechanical force. As a result, special handling precautions need to be observed during assembly using silicone encapsulated LED products. Failure to comply might lead to damage and premature failure of the LED.

1. Handle the component along the side surfaces by using forceps or appropriate tools.



2. Do not directly touch or handle the silicone lens surface. It may damage the internal circuitry.



3. Do not stack together assembled PCBS containing exposed LEDs. Impact may scratch the silicone lens or damage the internal circuitry.

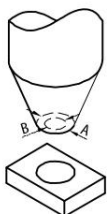


4. 4-A The inner diameter of the SMD pickup nozzle should not exceed the size of the LED to prevent air leaks

4-B A pliable material is suggested for the nozzle tip to avoid scratching or damaging the LED surface during pickup

4-C The dimensions of the component must be accurately programmed in the pick-and-place machine to insure precise pickup and avoid damage during production

4-D As silicone encapsulation is permeable to gases, some corrosive substances such as H₂S might corrode silver plating of leadframe. Special care should be taken if an LED with Silicone encapsulation is to be used near such substances.



5. Avoid continued exposure to the condensing moisture environment and keep the product away from rapid transitions in ambient temperature.

6. Product in the original sealed package is recommended to be assembled within 24 hours of opening.