
承认书

Specification for approval

客户名称：

Customer

产品型号：GS-5050T-3GN-NWN

Product Part No.

制定人：

Issued By

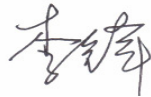


日期：

Date

审核：

Approved By



日期：

Date

客户回签：

Custer Confirmation

日期：

Date

SHENZHEN CUANGMAI ELECTRONICE CO., LTD.

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电话 (Tel): 86-755-23499599

传真 (Fax): 86-755-23497717

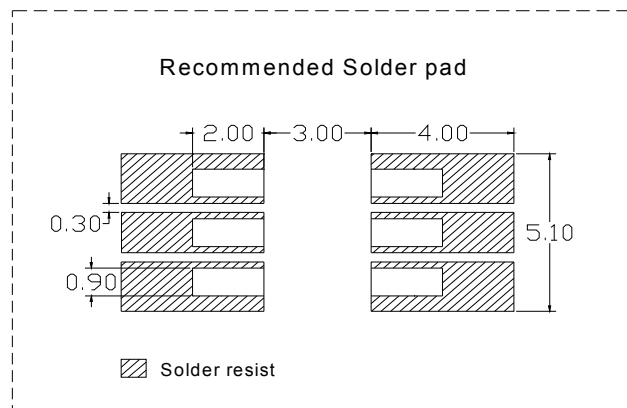
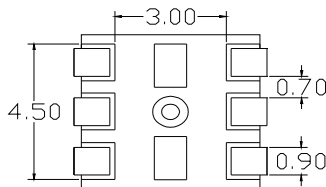
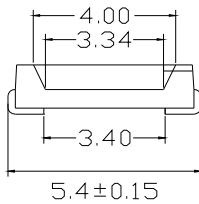
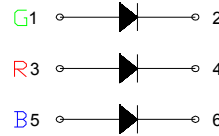
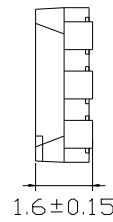
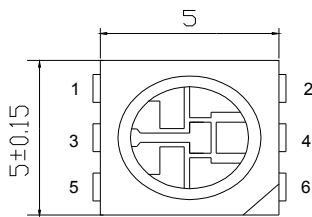
Full color TOP LED (5050)

Lead(Pb) Free Product-ROHS Compliant

■ Applications

1. Interior automotive lighting(dashboard backlight etc...)
2. Optical indicators
3. Communication Products
4. Backlighting
5. Flash
6. Toys

■ Package Dimensions



Notes:

All dimensions in mm tolerance is ± 0.1 mm unless otherwise noted.

■ Absolute Maximum Ratings (Ta = 25°C)

Items	Symbol	Absolute maximum Rating		Unit
		Red	Green/Blue	
Power Dissipation	P _D	60	100	mW
Forward Current(DC)	I _F	30	25	mA
Peak Forward Current*	I _{FP}	100	80	mA
Operation Temperature	T _{opr}	-40~ +95		°C
Storage Temperature	T _{stg}	-40 ~ +100		°C

*Pulse width ≤ 0.1msec duty ≤ 1/10

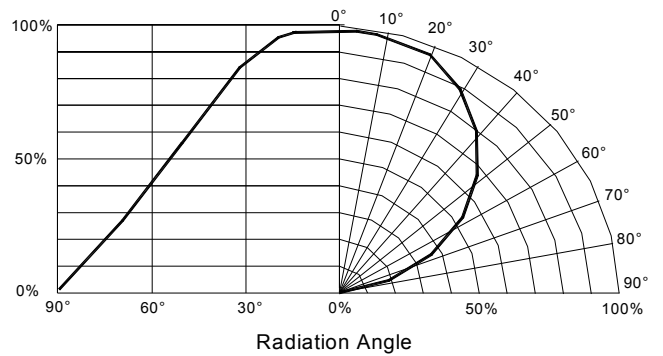
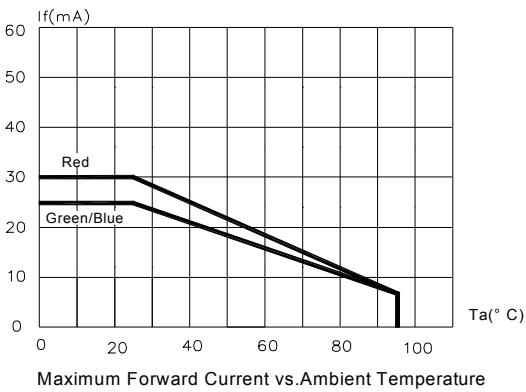
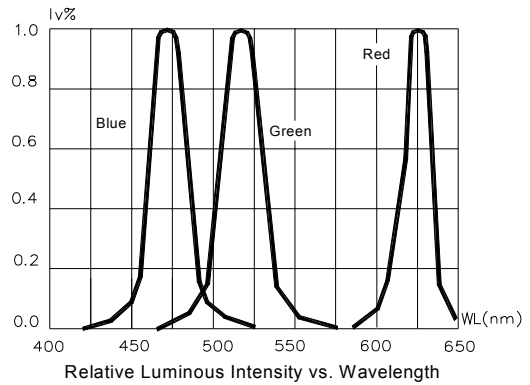
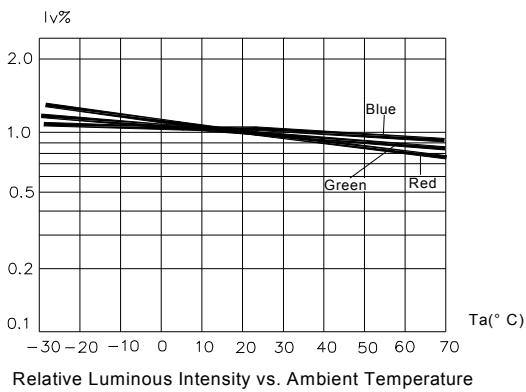
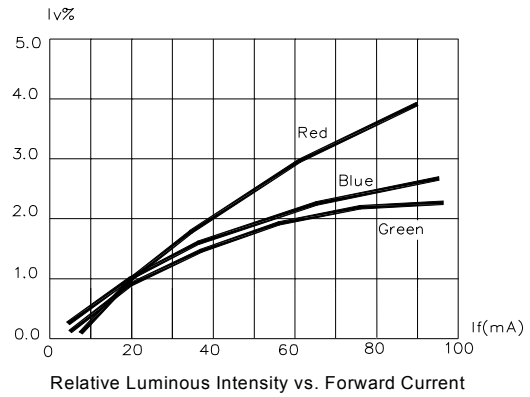
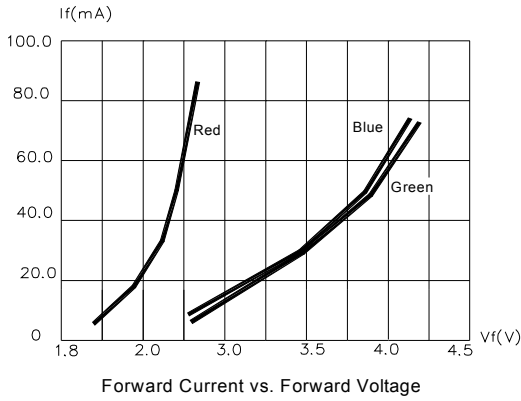
■ Typical Electrical & Optical Characteristics (Ta = 25°C)

Color	Codition	Dominant Wavelength (nm)		Forward Voltage (v)		Luminous Intensity (mcd)		Reverse Current (μ A)	50% Power Angle
		Min.	Typ.	Min.	Typ.	Min.	Typ.	Max.	Typ.
Red	IF=20mA	620	625	2.0	2.2	600	800	10	120
Green	IF=20mA	517	520	3.0	3.2	1500	1800	10	
Blue	IF=20mA	468	470	3.0	3.2	400	600	10	

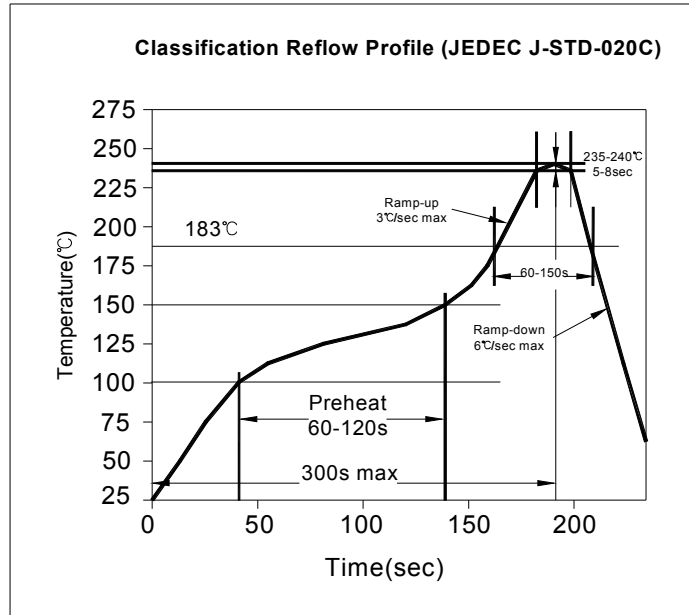
■ Notes

- Dominant Wavelength Rank:R:5nm/bin G/B:3nm/bin
Luminous Intensity Rank :1.25double/bin.
- Tolerance of measurement of luminous intensity : ±10%
- Tolerance of measurement of dominant wavelength : ±1.0nm
- Tolerance of measurement of forward voltage : ±0.1V

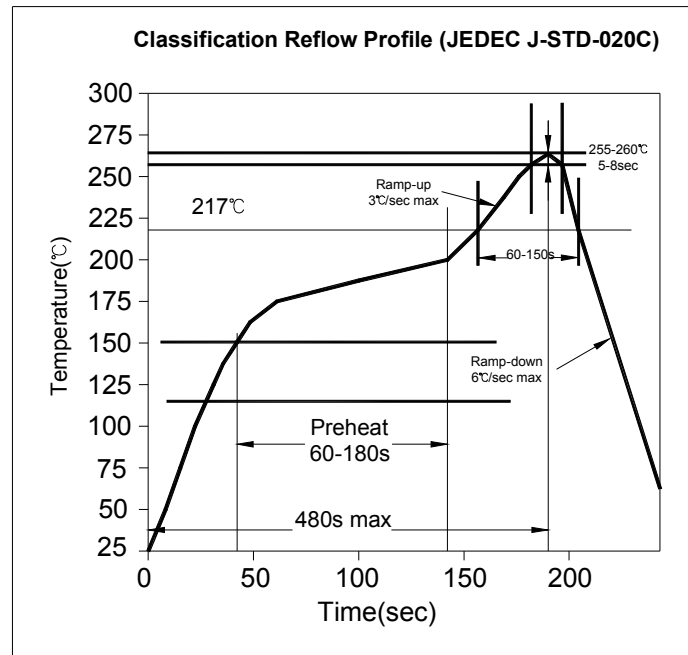
■ Typical Electrical/ Optical Characteristics Curves (Ta=25°C Unless Otherwise Noted) (per die)



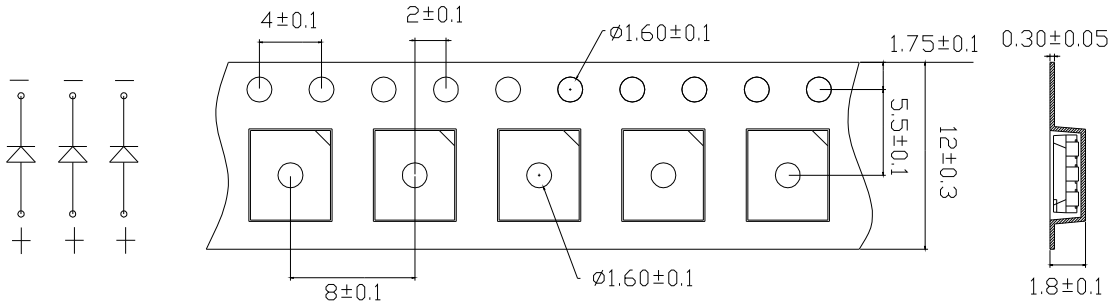
■ Soldering heat reliability:
Lead Solder



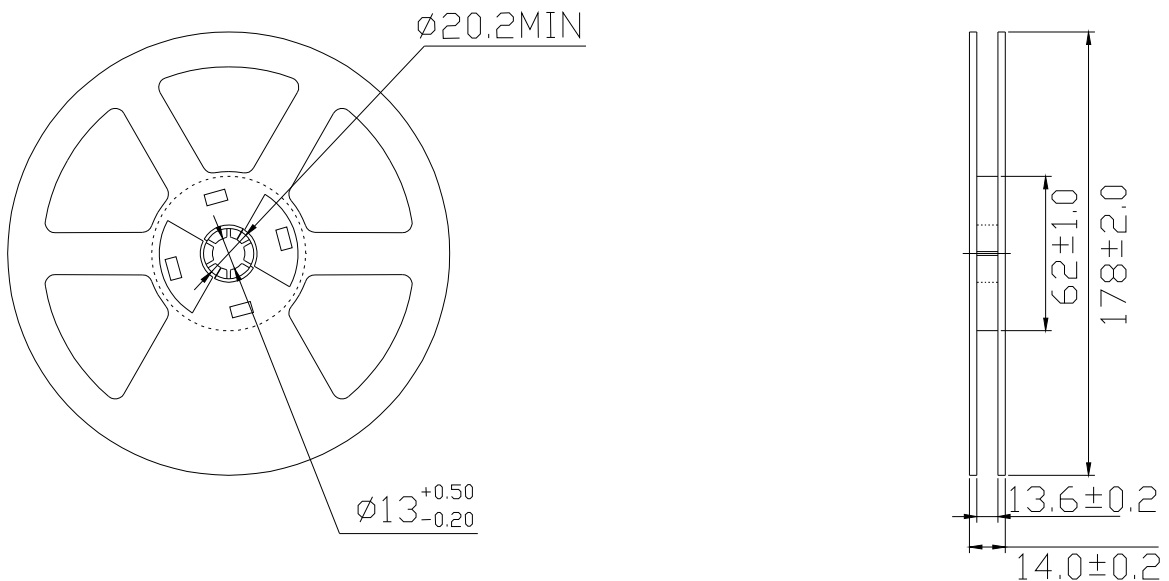
Lead Free Solder



■ Packing Specifications:



■ Reel Specifications



Dimensions are specified as follows: mm

Notes:

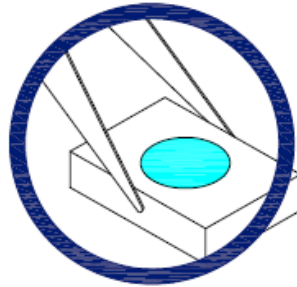
- 1) The packing only appropriate for GMDZ
- 2) Normal packing quantity: 1,000pcs/reel

■ Handling Precautions

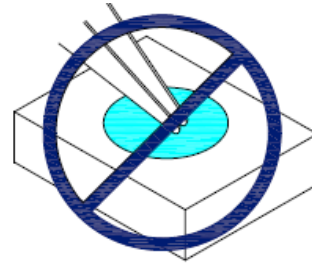
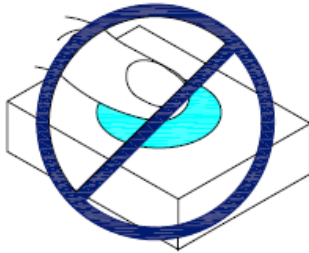
Compare to epoxy encapsulant that is hard and brittle, silicone is softer and flexible. Although its characteristic significantly reduces thermal stress, it is more susceptible to damage by external mechanical force.

As a result, special handling precautions need to be observed during assembly using silicone encapsulated LED products. Failure to comply might leads to damage and premature failure of the LED.

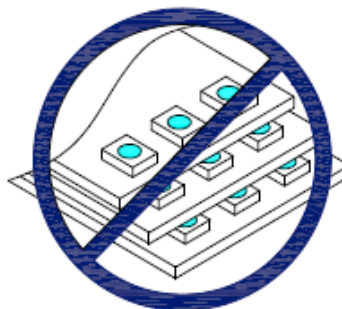
1. Handle the component along the side surfaces by using forceps or appropriate tools.



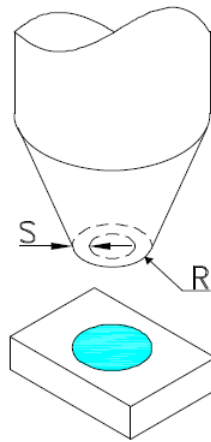
2. Do not directly touch or handle the silicone lens surface. It may damage the internal circuitry.



3. Do not stack together assembled PCBs containing exposed LEDs. Outside impact may scratch the silicone lens or damage the internal circuitry.



4. The outer diameter of the TOP LED pickup nozzle should not exceed the size of the LED to prevent air leaks.
The inner diameter of the nozzle should be as large as possible.
5. A pliable material is suggested for the nozzle tip to avoid scratching or damaging the LED surface during pickup.
6. The dimensions of the component must be accurately programmed in the pick-and-place machine to insure precise pickup and avoid damage during production.



7. Wet products have to be re-baked 24 hours at the temperature of $65\pm 5^{\circ}\text{C}$ in use.

Revision History					
Rev.No.	Change Description	Date	Prepared By	Checked By	Approved By
01	New-made specification	2010/3/20	HDW	LF	LF
02	New-made specification	2012/8/21	HZHY	LF	LF