

G-3014W

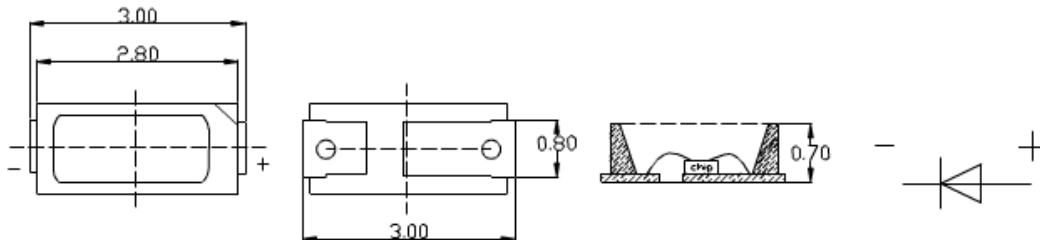


Lead(Pb) Free Product-ROHS Compliant

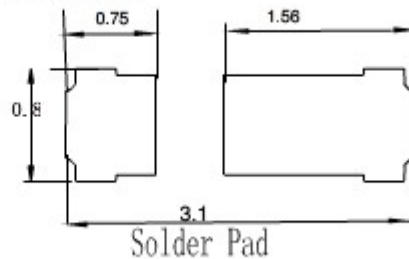
■ Applications

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

■ Package Dimensions



Recommended Soldering Pattern 推荐焊接模式



Notes:

All dimensions in mm tolerance is ± 0.1 mm unless

■ Absolute Maximum Ratings (Ta = 25°C)

Items	Symbol	Absolute maximum Rating	Unit
Power Dissipation	P_D	64	mW
Forward Current(DC)	I_F	30	mA
Peak Forward Current**	I_{FP}	40	mA
Operation Temperature	T_{opr}	-40~ +85	°C
Storage Temperature	T_{opr}	-40 ~ +100	°C
Manual Soldering Temperature	T_{SOL}	350°C \pm 20	°C

**Pulse width \leq 0.1msec duty \leq 1/10

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

Items	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V_F	$I_F = 30\text{mA}$	2.80		3.40	V
Reverse Current	I_R	$V_R = 5\text{V}$	---	---	10	μA
Chromatic Coordinates**	CCT	$I_F = 30\text{mA}$	6000		6500	K
Luminous Intensity**	I_V	$I_F = 30\text{mA}$	4600		5000	mCd
Luminous flux**	Flux	$I_F = 30\text{mA}$	12		14	lm
50% Power Angle**	$2\theta_{1/2}$	$I_F = 30\text{mA}$	---	120	---	Deg

** Luminous intensity , Luminous flux ,CIE and View angle data are the Values when 3 circuits are lit simultaneously.

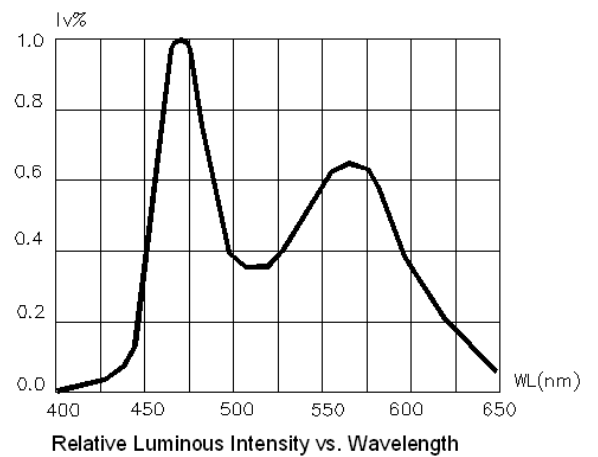
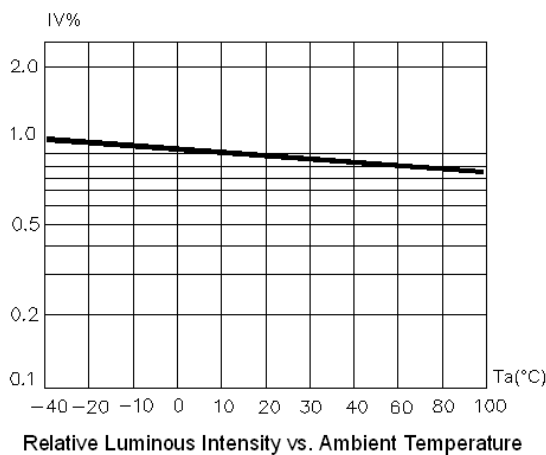
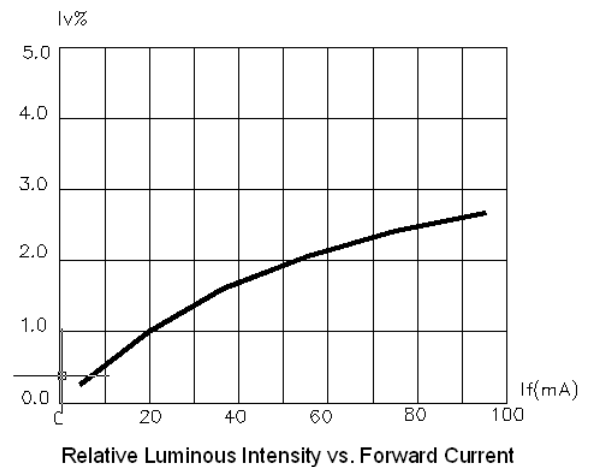
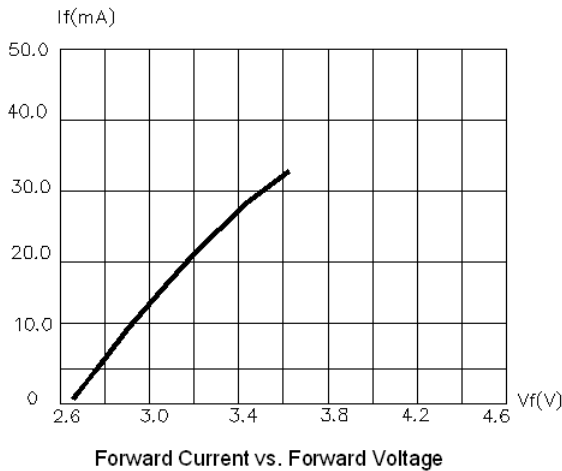
■ Ranks Combination (IF = 20mA)

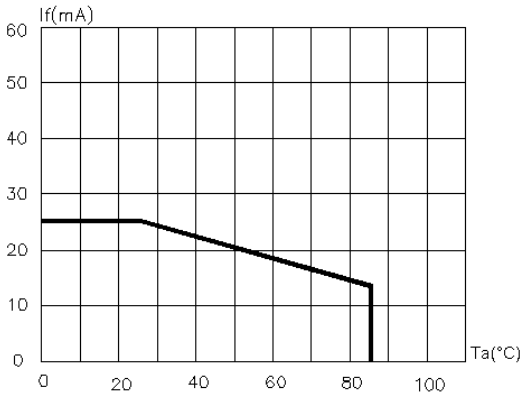
Rank	V2	W1	W2	X1
Luminous Intensity(mcd)	4400-5000	5000-5600	5600-6200	6200-7000

■ Notes

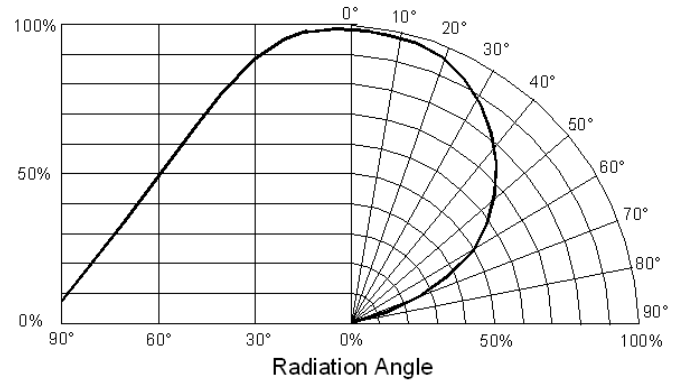
1. Tolerance of measurement of luminous intensity : $\pm 8\%$
2. Tolerance of measurement of chromatic coordinates : ± 0.01
3. Tolerance of measurement of forward voltage : $\pm 0.1\text{V}$

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





Maximum Forward Current vs. Ambient Temperature

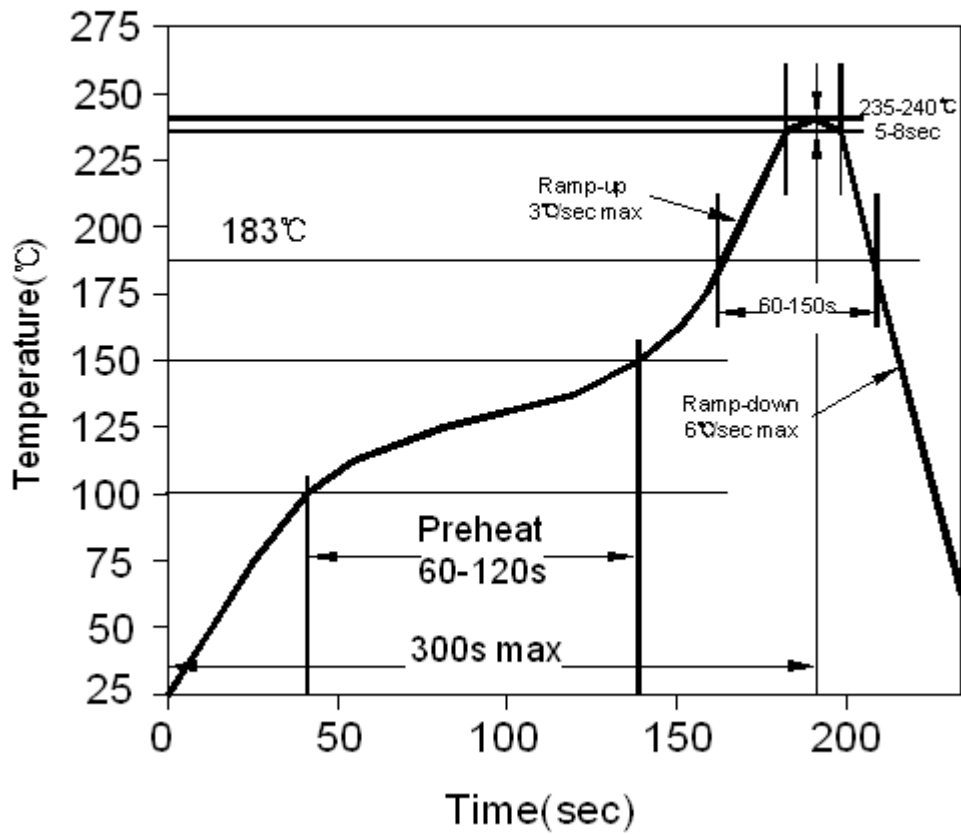


Radiation Angle

■ Soldering heat reliability:

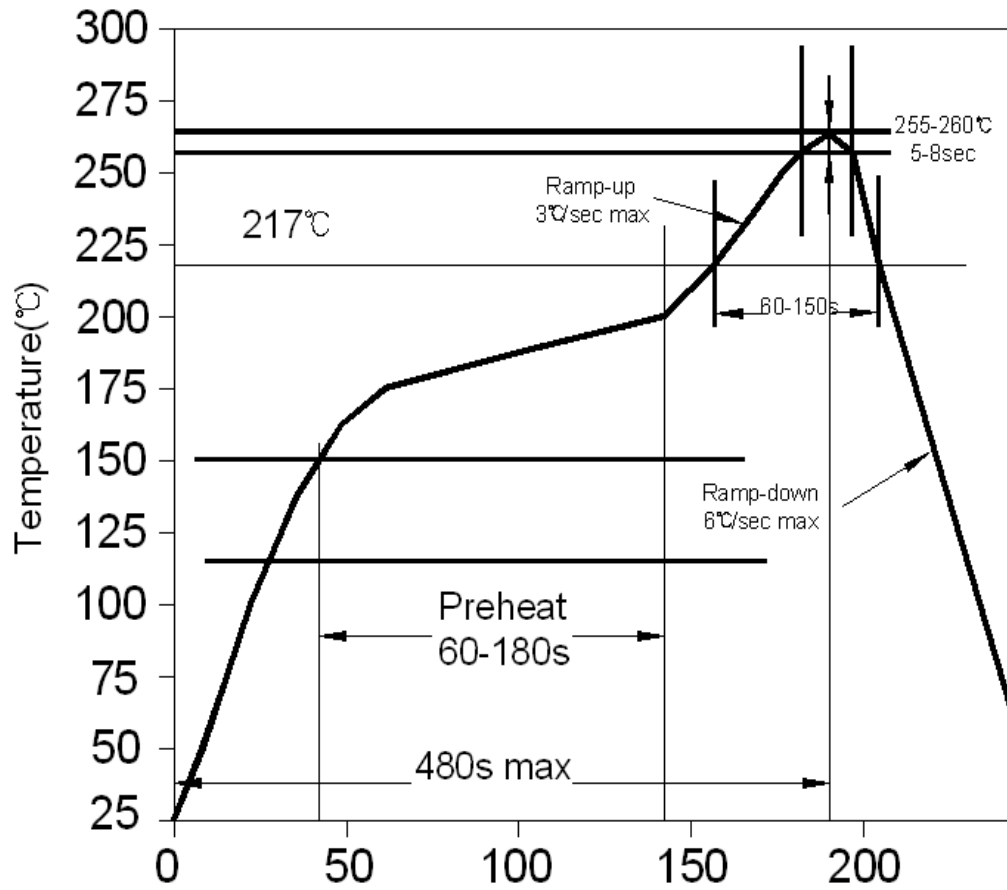
Lead Solder

Classification Reflow Profile (JEDEC J-STD-020C)

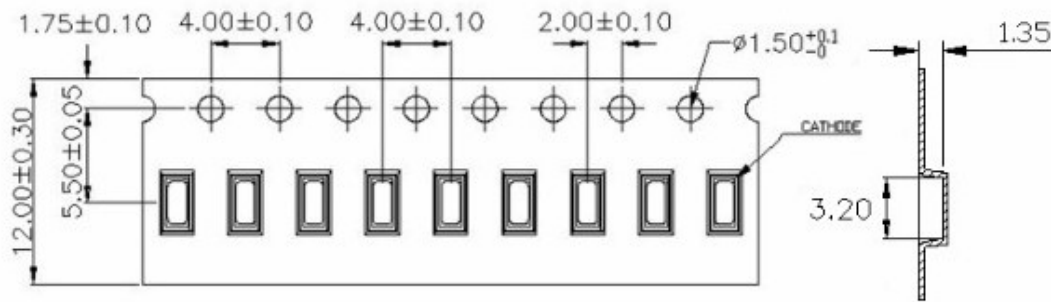


Lead Free Solder

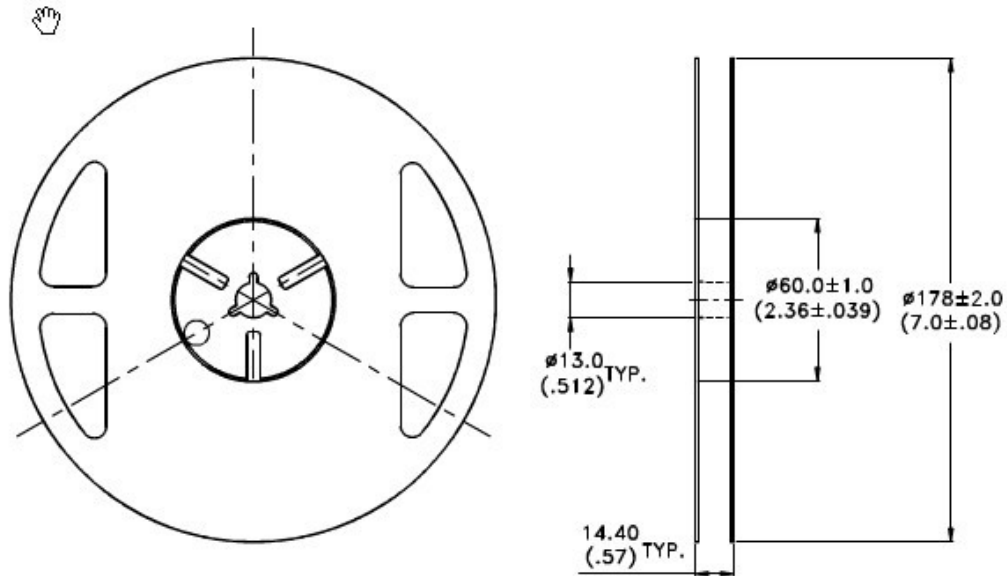
Classification Reflow Profile (JEDEC J-STD-020C)



■ Packing Specifications:



■ Reel Specifications



Dimensions are specified as follows: mm

Notes:

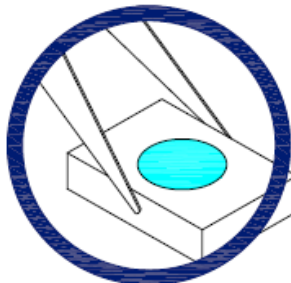
- 1) The packing only appropriate for GMDZ
- 2) Normal packing quantity: 3,000pcs/reel

■ Handling Precautions

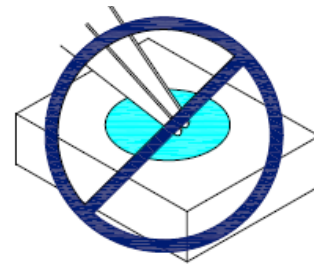
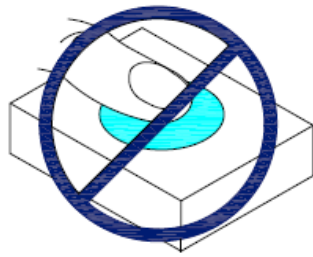
Compare to epoxy encapsulant that is hard and brittle, silicone is softer and flexible. Although its characteristic significantly reduces thermal stress, it is more susceptible to damage by external mechanical force.

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

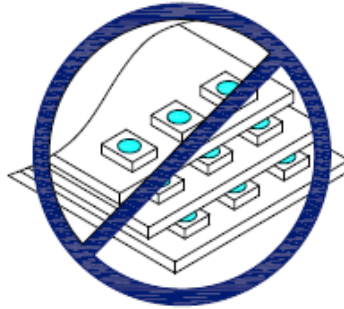
1. Handle the component along the side surfaces by using forceps or appropriate tools.



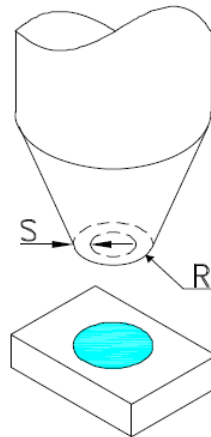
2. Do not directly touch or handle the silicone lens surface. It may damage the internal circuitry.



3. Do not stack together assembled PCBs containing exposed LEDs. 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