

**Model No:LZ-5054YCE0**

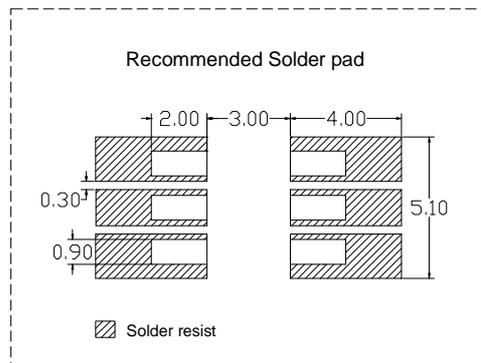
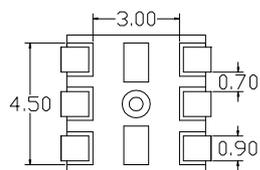
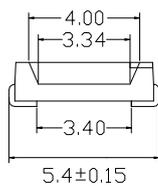
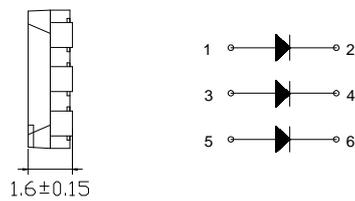
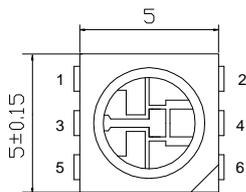
**Yellow TOP LED (5050)**

**Lead(Pb) Free Product-RoHS Compliant**

■ Applications

1. interior and exterior automotive lightings
2. Backlighting
3. illuminated advertising
4. Signal and Symbol Luminaires

■ Package Dimensions



Notes:

All dimensions in mm tolerance is  $\pm 0.1$ mm unless otherwise noted.

■ Absolute Maximum Ratings (Ta = 25°C)

Items	Symbol	Absolute maximum Rating	Unit
Power Dissipation*	P <sub>D</sub>	80	mW
Forward Current(DC)**	I <sub>F</sub>	30	mA
Peak Forward Current***	I <sub>FP</sub>	100	mA
Operation Temperature	T <sub>opr</sub>	-40~ +95	°C
Storage Temperature	T <sub>stg</sub>	-40 ~ +100	°C

\*The Value is for one LED Circuit

\*\*The Value is for one LED Circuit. For long term performance the drive currents between 5mA and 20mA are recommended(Three circuits are lit simultaneously). Please contact LZGD sales representative for more information on recommended drive conditions.

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

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

Items	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> = 3*20mA	1.8	2.0	---	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> = 5V	---	---	10	μ A
Dominant Wavelength	λ <sub>d</sub>	I <sub>F</sub> = 3*20mA	---	590	---	nm
Luminous Intensity	I <sub>V</sub>	I <sub>F</sub> = 3*20mA	1716	2200	---	mcd
50% Power Angle	2 θ ½	I <sub>F</sub> = 3*20mA	---	120	---	Deg

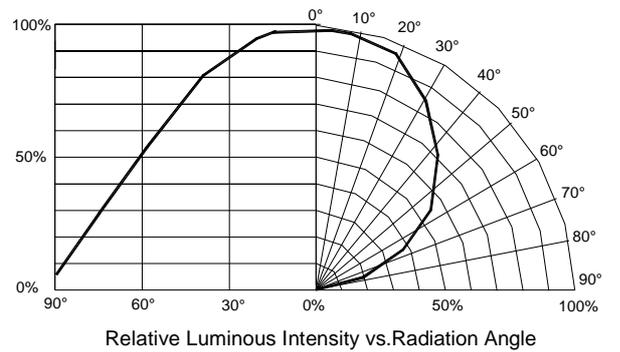
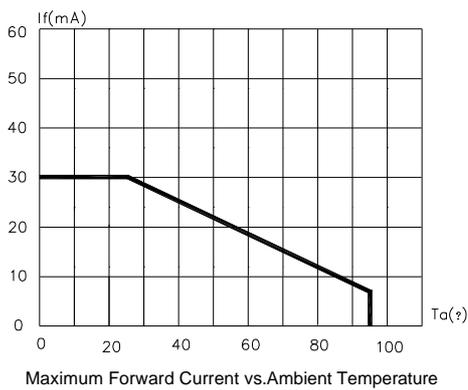
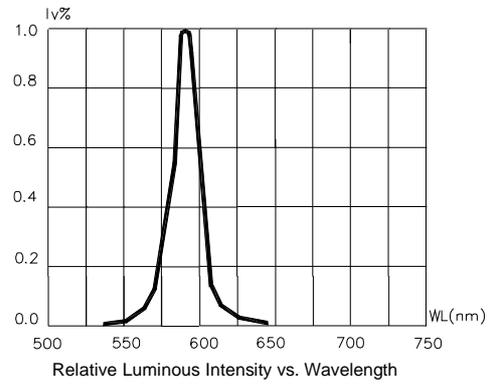
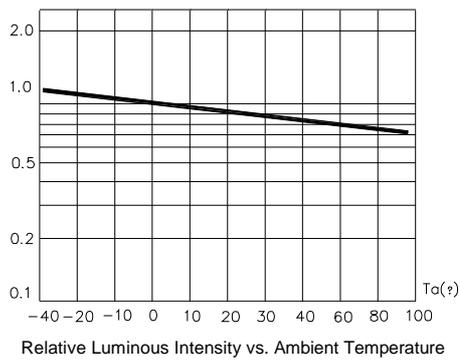
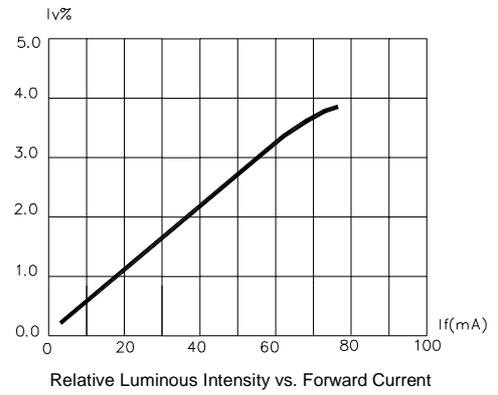
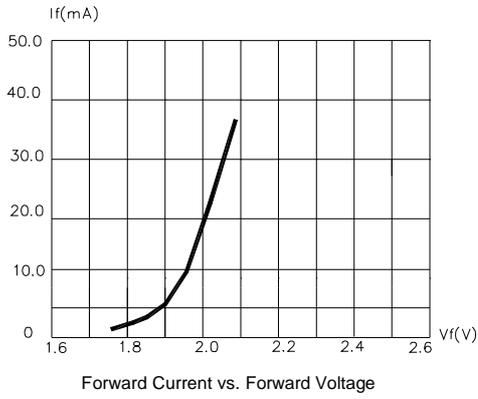
■ Ranks Combination (IF = 3\*20mA)

Rank	T2	U1	U2
Luminous Intensity(mcd)	1716-2145	2145-2681	2681-3351

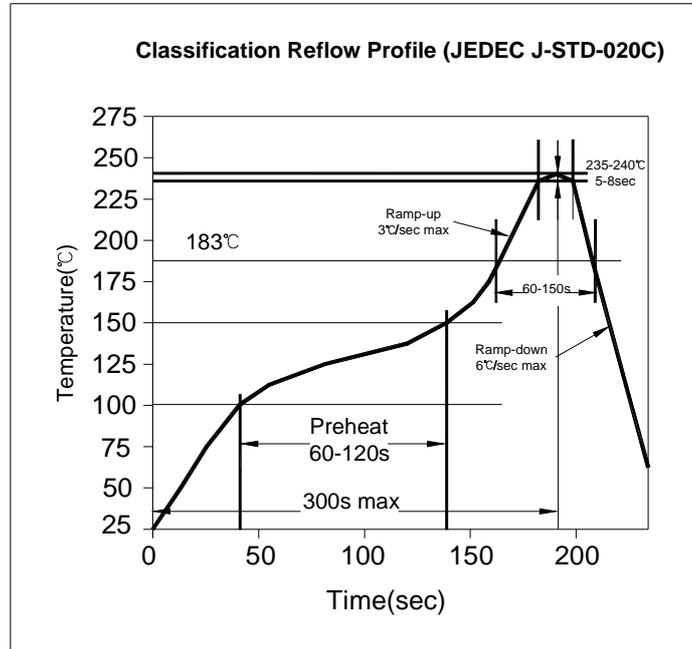
■ Notes

1. Tolerance of measurement of luminous intensity : ±15%
2. Tolerance of measurement of dominant wavelength : ±1nm
3. Tolerance of measurement of forward voltage : ±0.1V

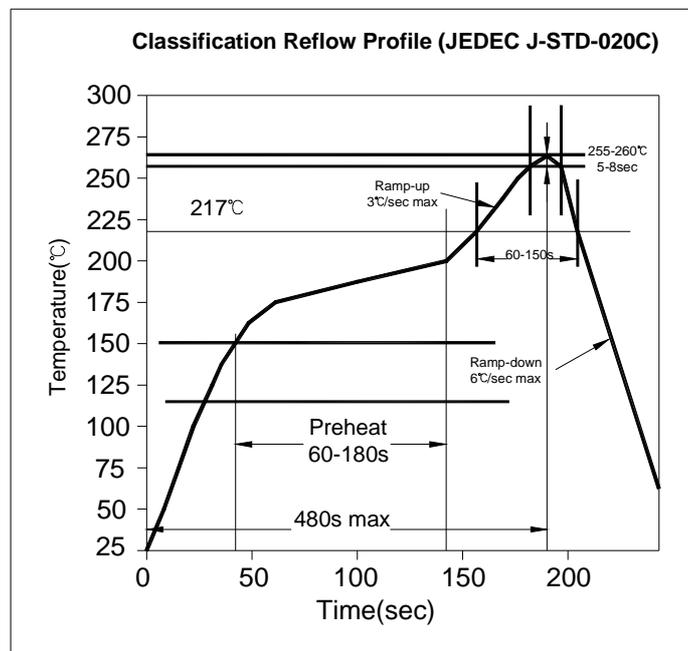
■ Typical Electrical/ Optical Characteristics Curves (Ta=25°C Unless Otherwise Noted)



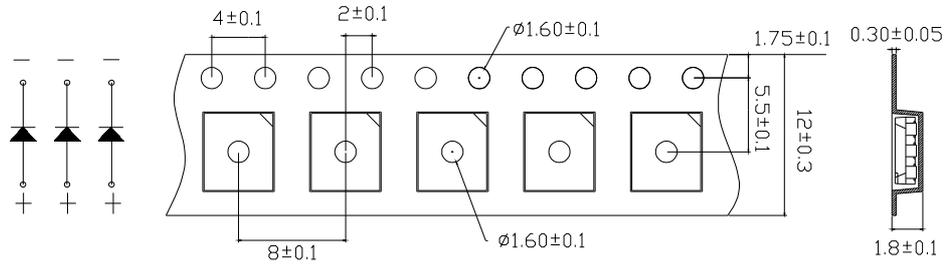
■ Soldering heat reliability:  
**Lead Solder**



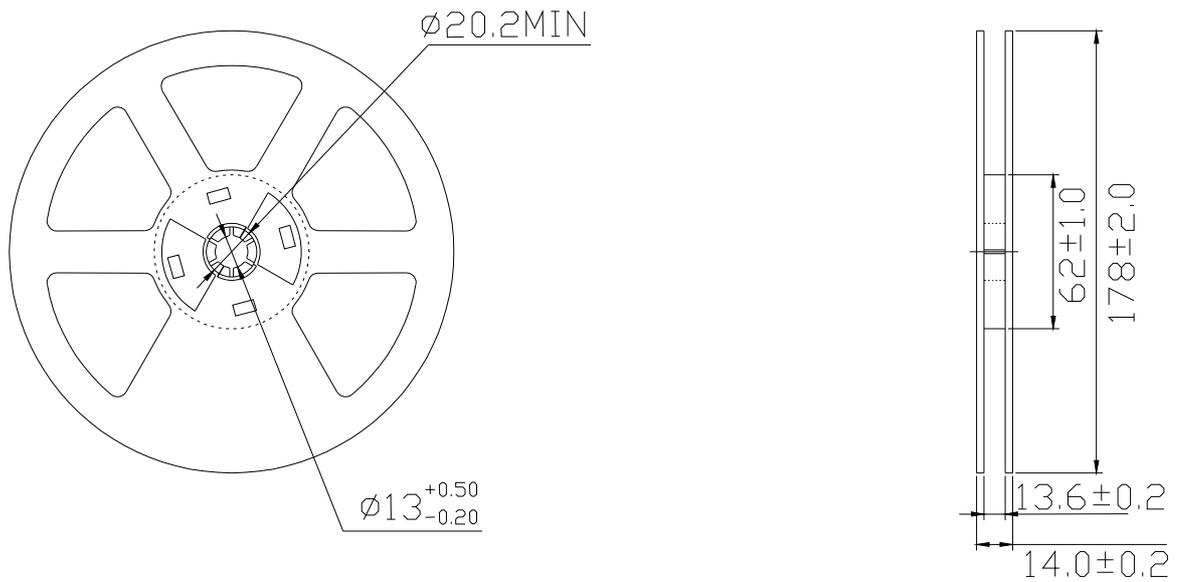
**Lead Free Solder**



■ Packing Specifications:



■ Reel Specifications



Dimensions are specified as follows:mm

**Notes:**

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

Revision History					
Rev.No.	Change Description	Date	Prepared By	Checked By	Approved By
Preliminary	New-made specification	2009/04/08	YQJ	Junney	Junney