

FYLS- 1204URC

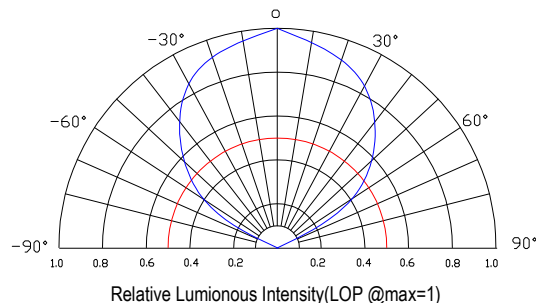
Radiation pattern.

Features:

- Compatible with automatic placement equipment
- Compatible with reflow solder process.

Applications:

- Automotive-Telecommunication
- Indicators
- Lcd Back-lights
- Illuminations



Descriptions:

- Dice material: AlGaAs.
- Emitting Color: high Red.
- Lens Color: Water clear.

Absolute maximum ratings(Ta=25 °c)

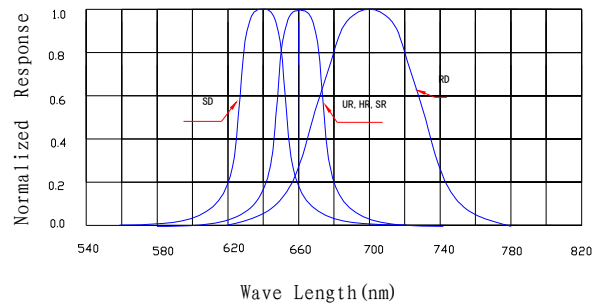
Parameter	MAX.	Unit
Power Dissipation	50	mW
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse)	100	mA
Continuous Forward Current	30	mA
Derating Linear From 25°C	0.4	mA/°C
Operating Temperature Range	-30°C to +80°C	
Storage Temperature Range	-40°C to +85°C	

Electrical and optical characteristics(Ta=25 °c)

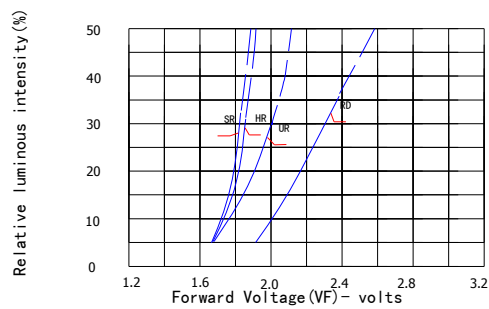
Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	IV	–	60	–	mcd	IF=20mA
Viewing Angle	2θ1/2	–	110	–	Deg	
Peak Emission	λp	625	630	635	nm	
Dominant Wavelength	λd	620	625	630	nm	
Spectral Line Half-Width	△λ	25	30	35	nm	
Forward Voltage	VF		2.1	2.3	V	VR=5V
Reverse Current	IR			10	μA	

Typical Electrical Characteristics Curves (25 °c Ambient Temperature Unless Otherwise Noted)

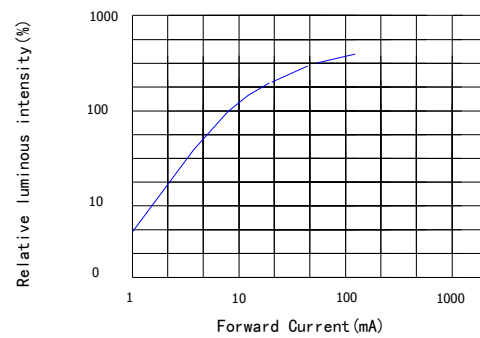
Spectral Reduance



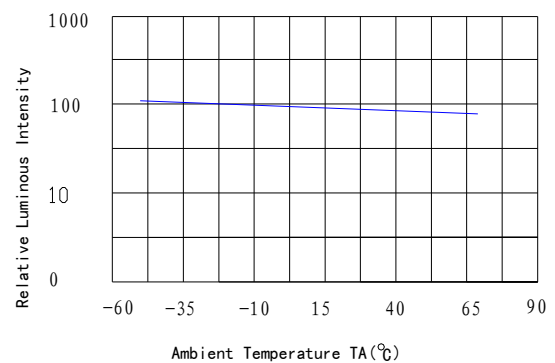
Luminous Intensity Vs. forward Current



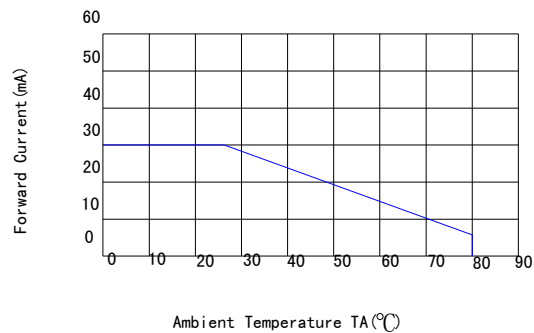
Luminous Intensity Vs. forward Current



Luminous Intensity Vs.
Ambient Temperature



Forward Current Derating Curve



◆ Precautions For Use

● Over-current-proof

Customer must apply resistors for protection, otherwise slight voltage shift will cause big current change (Burn out will happen)

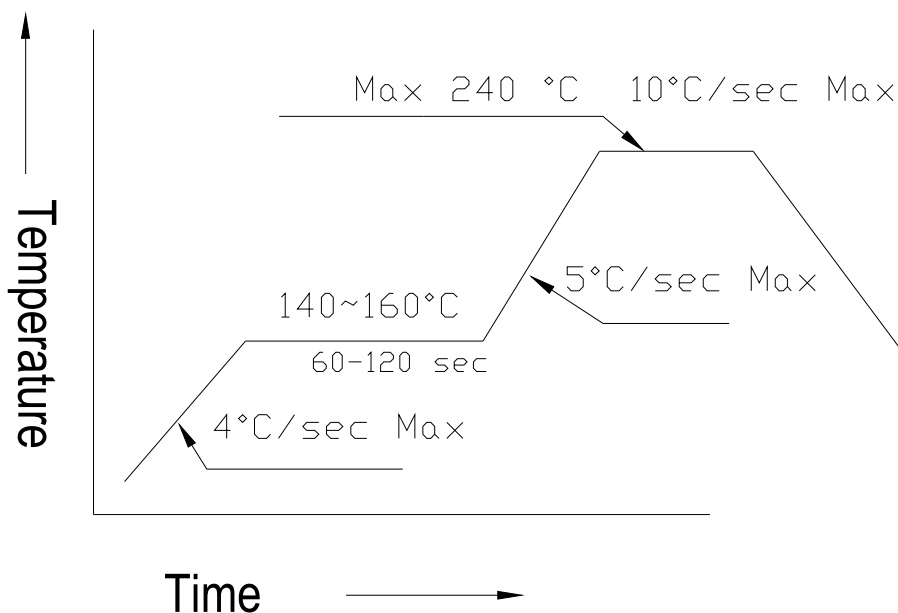
● Storage

1. The operation of temperature and R.H are: $5^{\circ}\text{C} - 30^{\circ}\text{C}$, R.H. 60% Max.
2. Once the package is opened, the products should be used within a week. Otherwise, they should be kept in a dampproof box with desiccating reagent. Considering the tape life, we suggest our customers to use our products within 1.5 year (from production date).
3. It's recommended to bake before soldering when the package is unsealed after 72 hrs. The Condition is: $60^{\circ}\text{C} \pm 5^{\circ}\text{C}$ for 15 hrs.

◆ Soldering Iron:

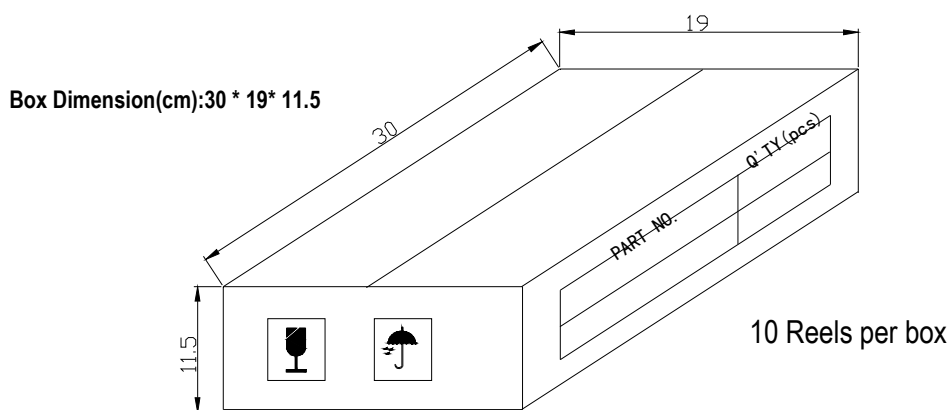
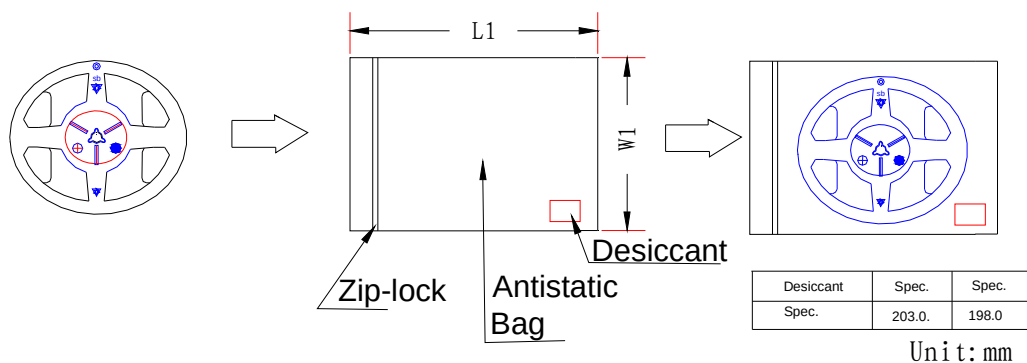
- Temperature at tip of iron: 300°C Max. (25W Max)
- Soldering time: 3 ± 1 sec.

◆ Reflow Temp./Time:

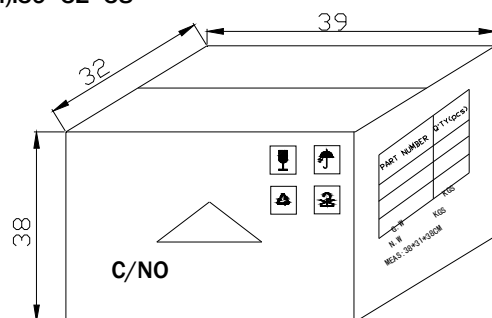


Unit:mm

◆ Packing and Shipping Spec.



CARTON
Dimension(cm):39*32*38



6boxes/carton
0603B/0603/0805:
4000pcs*10Reels*6boxes

0805B/1206B/¹²⁰⁶/₁₂₁₀/1204:
3000pcs*10Reels*6boxes*

3528:2000pcs*10Reels*6boxes
5050:1000pcs*8Reels*6boxes