FORYARD
OPTOELECTRONICS

SMD

FYLS - 0603YC

Features:

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

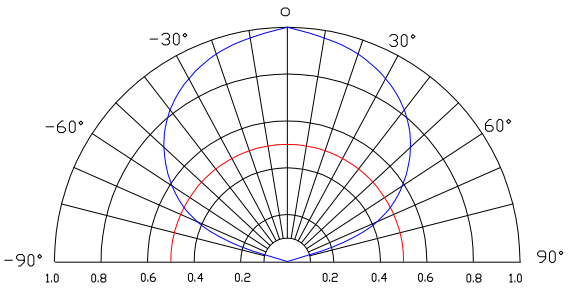
Applications:

- Automotive-Telecommumication
- Indicators
- Lcd Back-lights
- Illuminations

Descriptions:

- Dice material: GaP.
- Emitting Color: Yellow
- Lens Color: Water clear.

Radiation pattern.



Relative Lumionous Intensity(LOP @max=1)

Absolute maximun ratings(Ta=25 ˚c)

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

Electrical and optical characteristics(Ta=25 ˚c)

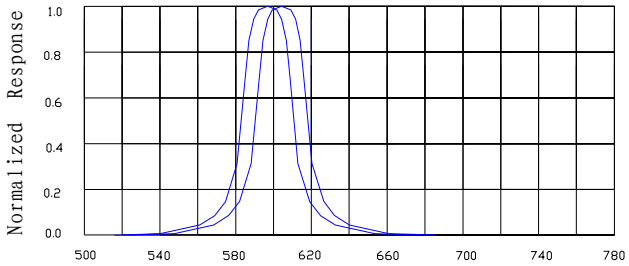
Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	IV	–	8	–	mcd	IF=20mA
Viewing Angle	2θ1/2	-	130	-	Deg	
Peak Emission	λp	583	588	593	nm	
Dominant Wavelength	λd	585	590	585	nm	
Spectral Line Half-Width	△λ	25	30	35	nm	
Forward Voltage	VF		2.1	2.4	V	
Reverse Current	IR			10	μA	VR=5V

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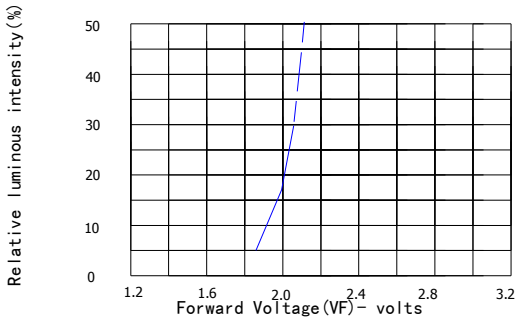
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Typical Electrical Characteristics Curves
(25 °c Ambient Temperature Unless Otherwise Noted)

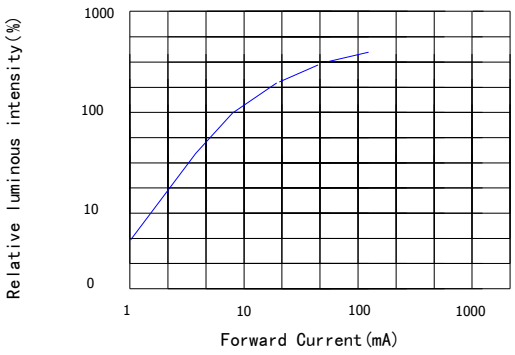
Spectral Reduance



Luminous Intensity Vs. forward Current

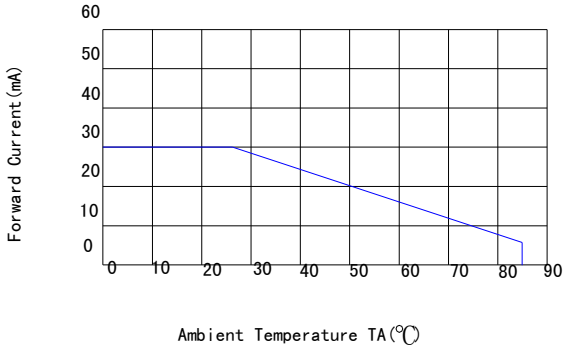


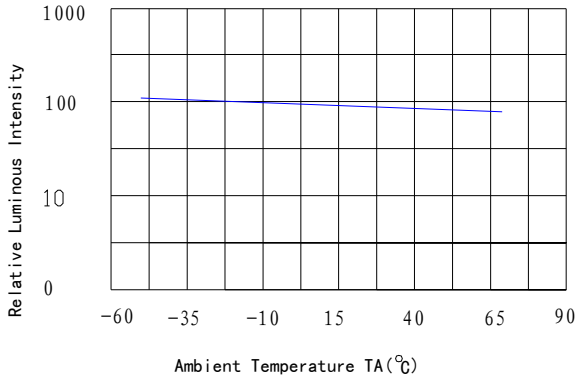
Luminous Intensity Vs. forward Current



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 chang(Burn out will happen)

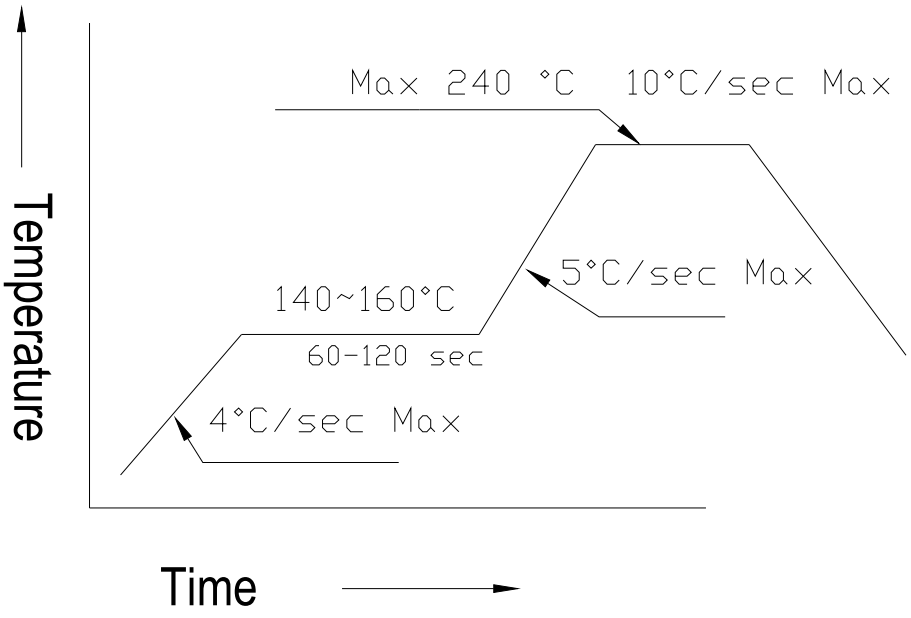
- **Storage**

1. The operation of temperature and R.H are:5 ˚c —30 ˚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 desccating regent.Considering the tape life,we Suggest our customers to use our products within 1.5year (form production date).
3. It's recommended to bake before soldering when the package is unsealed after 72hrs.The Condition is: 60 ˚c ±5 ˚c for 15 hrs.

◆ Soldering Iron:

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

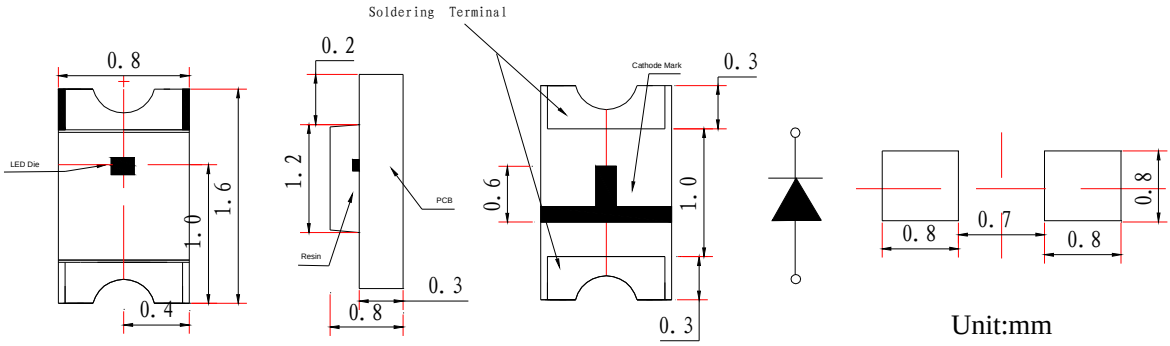
◆ Reflow Temp./Time:



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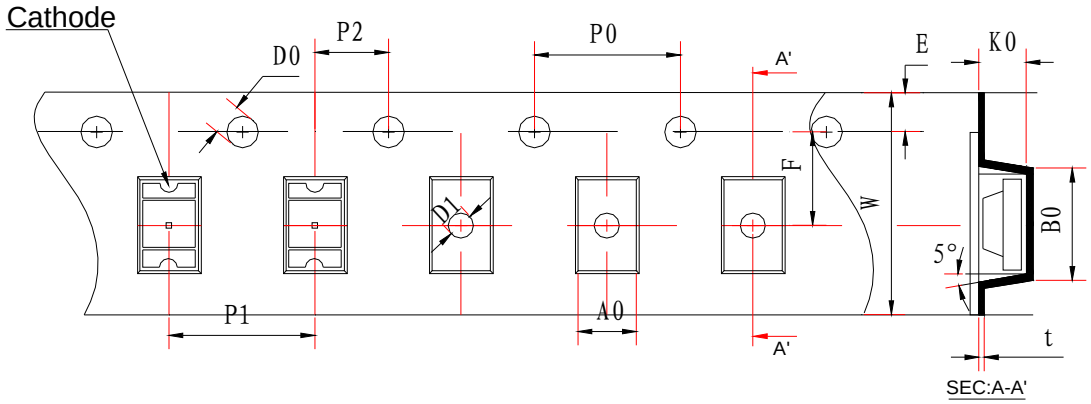
◆ Package Dimensions of Device



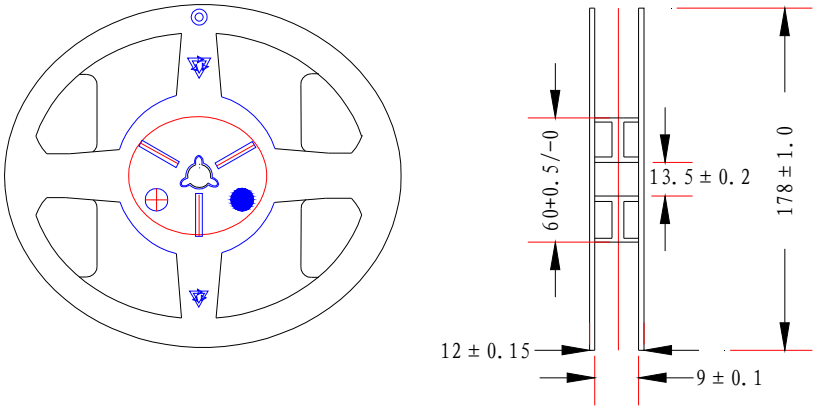
Unit:mm

◆ Tape Specification:3000pcs Per Reel.

Item	W	P1	E	F	D0	D1	P0	Unit
Spec.	8.00	4.00	1.75	3.50	1.50	0.5	4.00	mm
Tolerance	±0.20	±0.10	±0.10	±0.05	+0.1/-0	±0.05	±0.05	mm
Item	10P0	P2	A0	B0	K0	T		Unit
Spec.	40.00	2.00	0.95	1.80	0.96	0.22		mm
Tolerance	±0.20	±0.05	±0.10	±0.10	±0.10	±0.05		mm



◆ Package Dimensions of Reel:

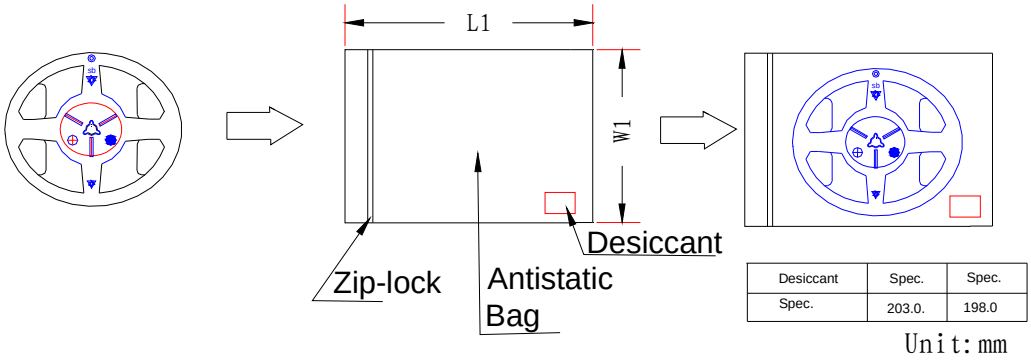


Unit:mm

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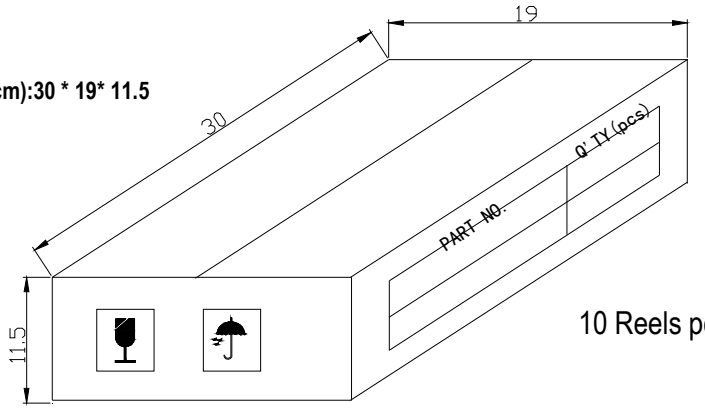
◆ Packing and Shipping Spec.



Desiccant	Spec.	Spec.
Spec.	203.0.	198.0

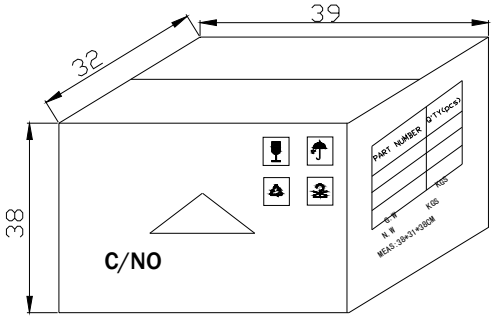
Unit: mm

Box Dimension(cm):30 * 19* 11.5



10 Reels per box

CARTON
Dimension(cm):39*32*38



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

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

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