

SUPERFLUX LED LAMP

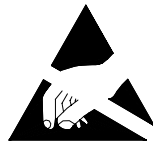
JZL-NB957C-C5P

DATA SHEET

DOCUMENT NO.: WI-RD-LDS- NB957C-C5P

RELEASE DATE: 2007-04-03

VERSION: A/0



ATTENTION

OBSERVE PRECAUTIONS
ELECTROSTATIC
SENSITIVE DEVICES

PART NO.: JZL-NB957C-C5P

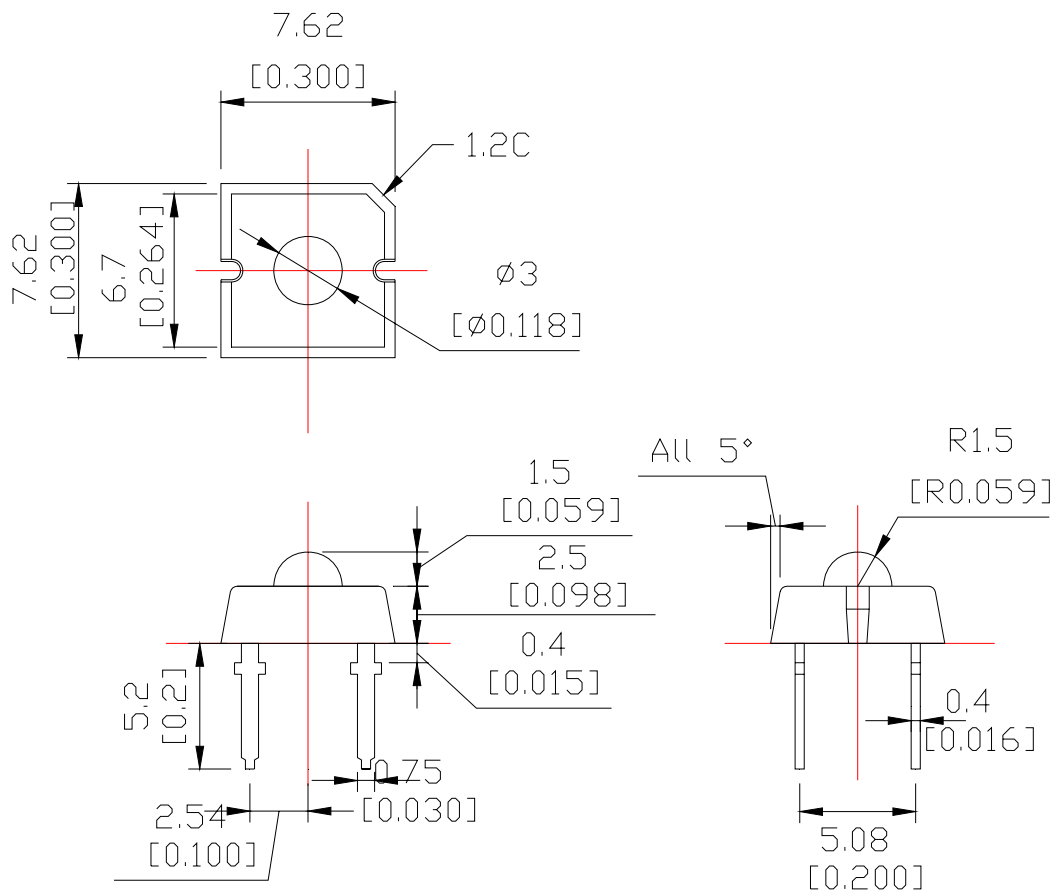
Features:

- 3mm Superflux lamp
- Lens color: WATER CLEAR
- Emitting color: BLUE
- viewing angle: 35°
- Leads with stand-offs: YES
- RoHS compliant

Application:

- Indicator
- Decoration
- Lighting
- others

Package Dimensions



Notes:

1. All dimension are in millimeters and(Inch)tolerance is ± 0.25 mm unless otherwise noted.
- 2.Specifications are subject to change without notice.

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Absolute Maximum Rating at $T_a=25^{\circ}\text{C}$

Power Dissipation	120	mW
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	120	mA
Forward Current	25	mA
Operating Temperature Range	-30°C to $+85^{\circ}\text{C}$	
Storage Temperature Range	-40°C to $+100^{\circ}\text{C}$	
Lead Soldering Temperature [3mm From Body]	260 $^{\circ}\text{C}$ for 3 Seconds	

Electrical /Optical Characteristics at $T_a=25^{\circ}\text{C}$

Description	Symbol	Conditions	Min.	Typ.	Max.	Unit
Forward Voltage	V _F	I _F =20mA	2.8	3.2	4.0	V
Reverse Current	I _R	V _R =5V	/	/	10	μA
Dominant Wavelength	λ_D	I _F =20mA	/	470	/	nm
Luminous Intensity	I _v	I _F =20mA	/	1200	/	mcd
Half V-angle	2 $\theta_{1/2\text{H-H}}$	I _F =20mA	/	40	/	deg
	2 $\theta_{1/2\text{V-V}}$	I _F =20mA	/	/	/	deg

1. V_f maximum tolerance for each bin limit is $\pm 0.1\text{V}$.
2. I_v maximum tolerance for each bin limit is $\pm 15\%$.
3. λ_D maximum tolerance for each bin limit is $\pm 1\text{nm}$.

Typical Optical-Electronic Characteristic Curves

I_f (mA)

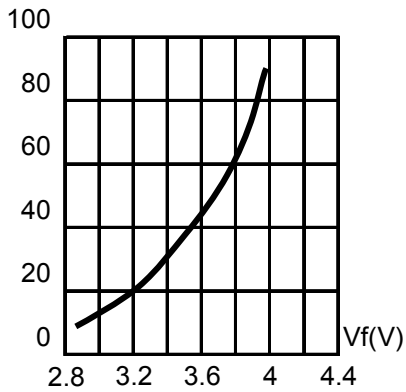


Fig.1 FORWARD CURRENT VS. FORWARD VOLTAGE

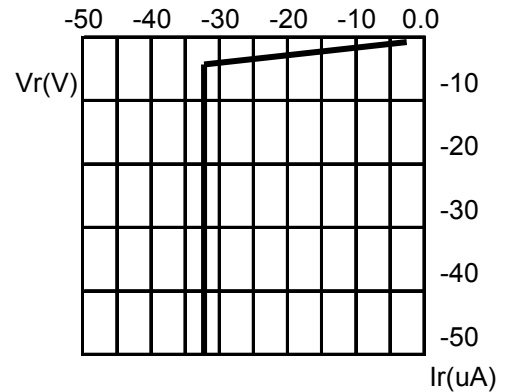


Fig.2 REVERSE CURRENT VS. REVERSE VOLTAGE.

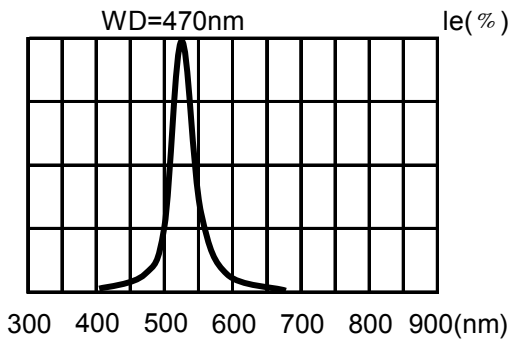
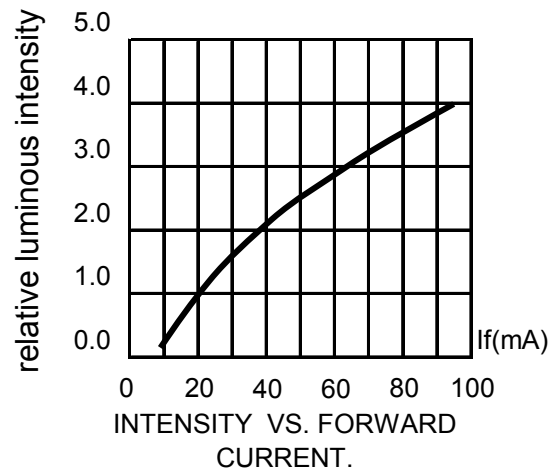


Fig.4 RELATIVE LUMINOUS INTENSITY VS. WAVELENGTH.



INTENSITY VS. FORWARD CURRENT.

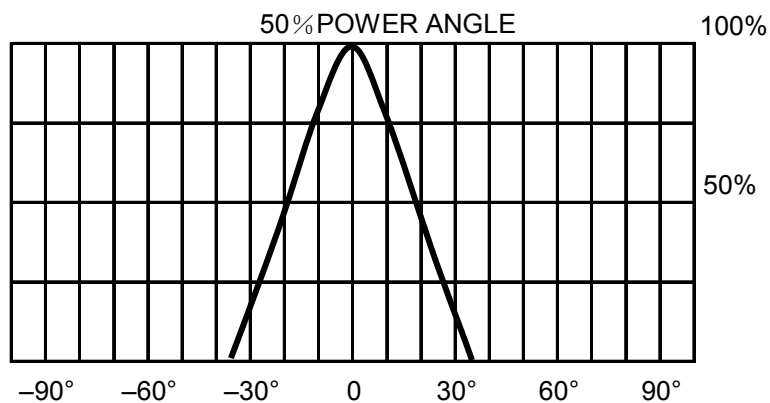


Fig.5 FAR FIELD PATTERN

CAUTIONS:

Storage time

1. The operation of Temperatures and RH are: 5°C~35°C, RH60%.
2. Once the package is opened, the products should be used within a week.
Otherwise, they should be kept in a damp proof box with desiccating agent.
Considering the tape life, we suggest our customers to use our products within a year(from production date).
3. If opened more than one week in an atmosphere 5°C~ 35°C, RH60%, they should be treated at 60°C±5 °C for 15hours.

Cleaning

Use alcohol-based cleaning solvents such as isopropyl alcohol to clean the LED.

ESD(Electrostatic Discharge)

Static Electricity or power surge will damage the LED. Use of a conductive wrist band or anti-electrostatic glove is recommended when handling these LED. All devices, equipment and machinery must be properly grounded.

Soldering Instructions

Dip and wave soldering condition: $\leq 260^{\circ}\text{C}/3\text{seconds}$, distance from solder joint to case is 3.0mm

Reliability Test:

(1)Test Items And Results

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