

**SUPERFLUX WHITE LED LAMP**

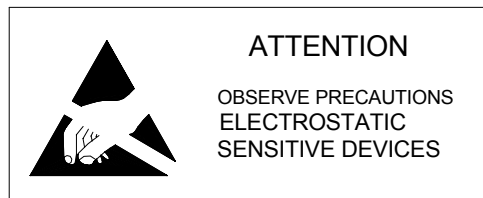
**JZL-W957C-F0P**  
**DATA SHEET**

**DOCUMENT NO.:** WI-RD-LDS- W957C-F0P

**RELEASE DATE:** 2007-04-03

**VERSION:** A/0

**FORMER:** JZL-3W7SC-10G28B/Z



# PART NO.: JZL-W957C-F0P

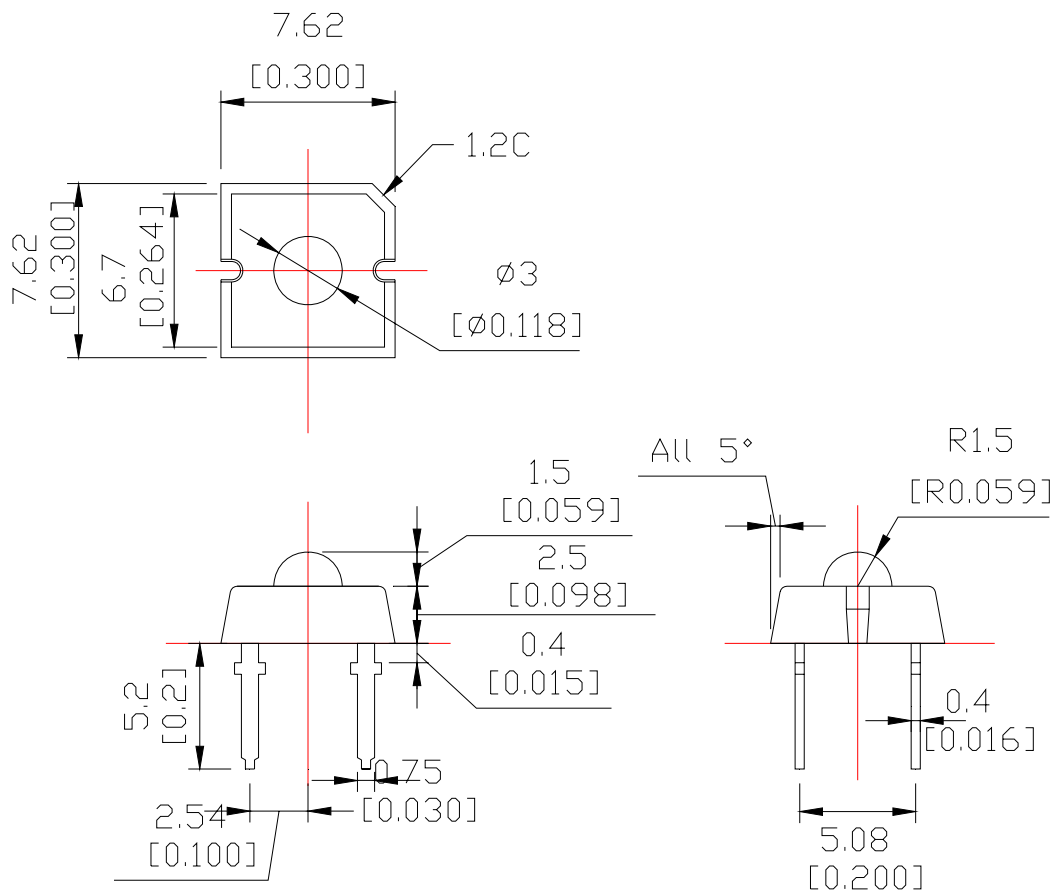
## Features:

- 3mm Superflux White lamp
- Lens color: WATER CLEAR
- Emitting color: WHITE
- viewing angle: 60°
- 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  $\pm 0.25$ 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	$-30^{\circ}\text{C}$ to $+85^{\circ}\text{C}$	
Storage Temperature Range	$-40^{\circ}\text{C}$ 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 <sub>F</sub>	I <sub>F</sub> =20mA	2.8	3.2	4.0	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> =5V	/	/	10	$\mu\text{A}$
Chromaticity	X	I <sub>F</sub> =20mA	/	0.29	/	
Coordinates	Y		/	0.34	/	
Luminous Intensity	I <sub>v</sub>	I <sub>F</sub> =20mA	/	2000	/	mcd
Half V-angle	2 $\theta$ <sub>1/2H-H</sub>	I <sub>F</sub> =20mA	/	60	/	deg
	2 $\theta$ <sub>1/2V-V</sub>	I <sub>F</sub> =20mA	/	/	/	deg

1. V<sub>f</sub> maximum tolerance for each bin limit is  $\pm 0.1V$ .
2. I<sub>v</sub> maximum tolerance for each bin limit is  $\pm 15\%$ .
3.  $\lambda_D$  maximum tolerance for each bin limit is  $\pm 1\text{nm}$ .

## Typical Optical-Electronic Characteristic Curves

If(mA)

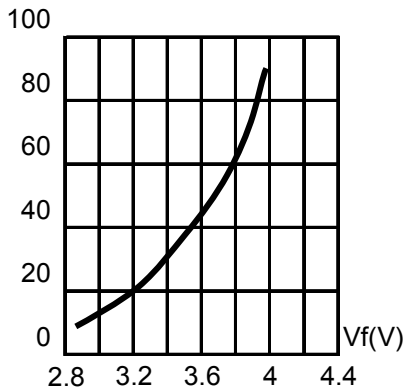


Fig.1 FORWARD CURRENT VS. FORWARD VOLTAGE

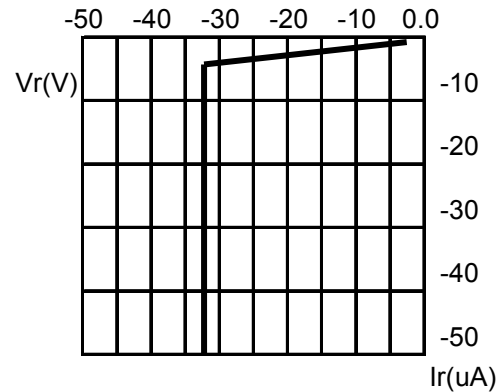


Fig.2 REVERSE CURRENT VS. REVERSE VOLTAGE.

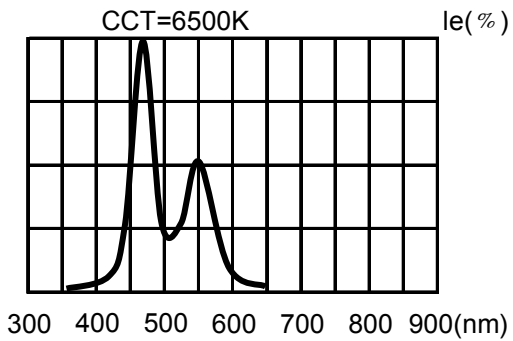


Fig.4 RELATIVE LUMINOUS INTENSITY VS. WAVELENGTH.

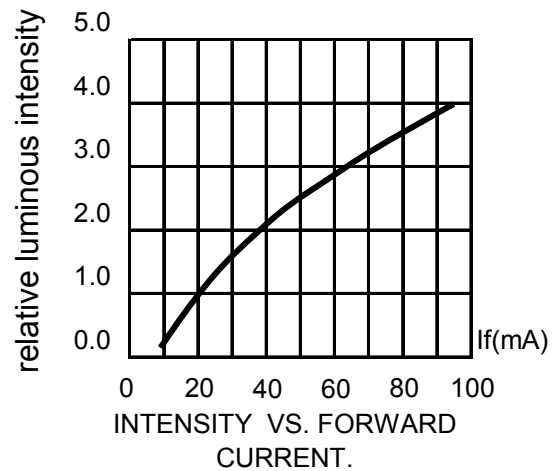


Fig.3 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT.

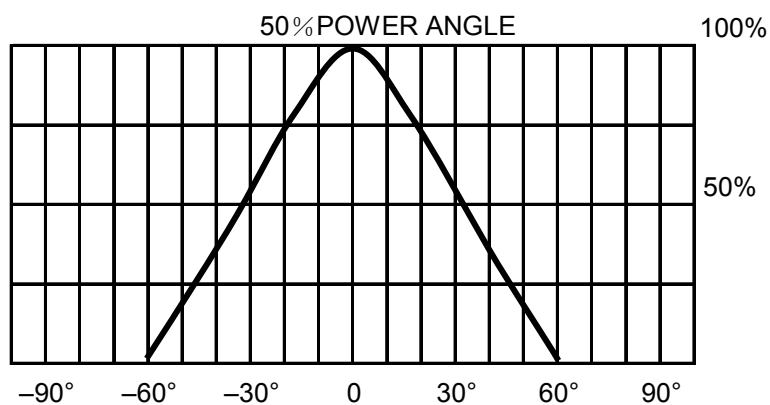


Fig.5 FAR FIELD PATTERN

## **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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