SUPERFLUX LED LAMP

JZL-NB957C-C5P DATA SHEET

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

RELEASE DATE: 2007-04-03

VERSION: A/0



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:

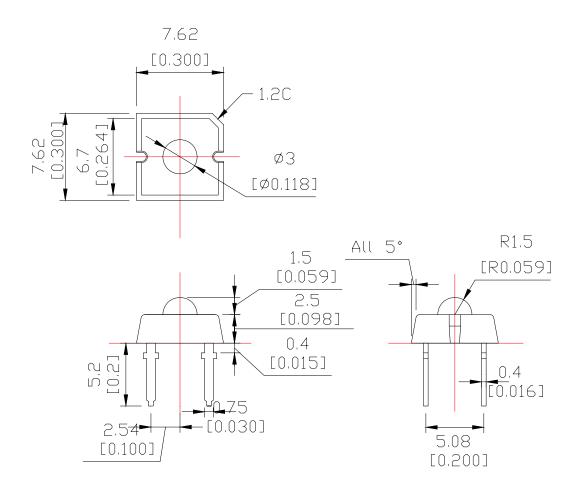
Indicator

Decoration

Lighting

others

Package Dimensions



Notes:

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

PART NO.: JZL- NB957C-C5P

Absolute Maximum Rating at=Ta=25℃

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

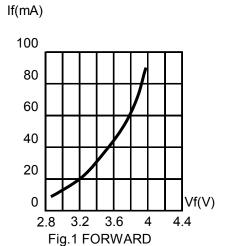
Electrical /Optical Characteristics at Ta=25 ℃

Description	Symbol	Conditions	Min.	Тур.	Max.	Unit
Forward Voltage	VF	IF=20mA	2.8	3.2	4.0	V
Reverse Current	IR	VR=5V	/	/	10	μΑ
Dominant Wavelength	λD	IF=20mA	/	470	/	nm
Luminous Intensity	lv	IF=20mA	/	1200	/	mcd
	2θ1/2H-H	IF=20mA	/	40	/	deg
Half V-angle	2θ1/2V-V	IF=20mA	/	/	/	deg

- 1. Vf maximum tolerance for each bin limit is +/-0.1V.
- 2. Iv maximum tolerance for each bin limit is +/-15%.
- 3. λD maximum tolerance for each bin limit is +/-1nm.

PART NO.: JZL- NB957C-C5P

Typical Optical-Electronic Characteristic Curves



CURRENT VS. FORWARD

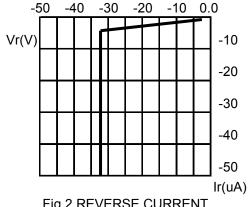
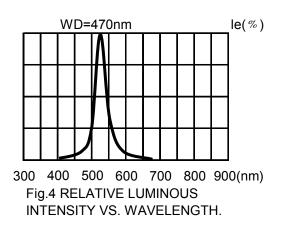
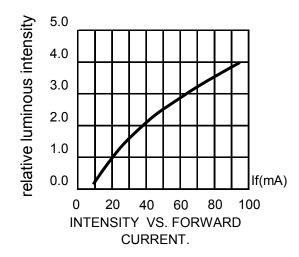


Fig.2 REVERSE CURRENT VS. REVERSE VOLTAGE.





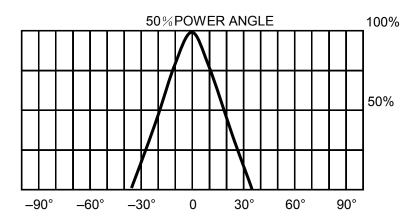


Fig.5 FAR FIELD PATTERN

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 descanting 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-electrosatic glove is recommended when handing these LED. All devices, equipment and machinery must be properly grounded.

Soldering Instructions

Dip and wave soldering condition: <=260°C/3seconds,distance from solder joint to case is 3.0mm

Reliability Test:

	Standard Test			Number of
Test Item	Method	Test Conditions	Note	Damaged
Resistance to	JEITA ED-4701	Tsld=260 <u>+</u> 5°C,10sec. 3mm		
Soldering Heat	300 302	from the base of the epoxy bulb	1time	0/100
Coluctury Float	JEITA ED-4701	Tsld=235+ 5°C,5sec.	1time over	0, 100
Solderability	300 303	(using flux)	95%	0/100
,	JEITA ED-4701			
Thermal Shock	300 307	-40℃/15min.~100℃/15min.	100cycles	0/100
	JEITA ED-4701	-40°C/30min.~25°C/5min.	,	
Temperature Cycle	100 105	~100℃/30min.~25℃/5min.	100cycles	0/100
Moisture	JEITA ED-4701	25℃~65℃~-10℃		
Resistance Cyclic	200 203	90%RH 24hrs./1cycle	10cycles	0/100
Terminal	200 200	oo /or u · z · · · · · · · · · · · · · · · · ·	100,0.00	0,100
Strength(bending	JEITA ED-4701	Load 5N(0.5kgf)	No noticeable	
test)	400 401	0°~90°~0°bend 2 times	damage	0/100
Terminal	JEITA ED-4701		No noticeable	
Strength(pull test)	400 401	Load 10N(1kgf)10+1sec.	damage	0/100
High temperature	JEITA ED-4701		aamago	07.00
Storage	200 201	Ta=100℃	1000hrs.	0/100
Temperature	JEITA ED-4701			
Humidity Storage	100 103	Ta=60℃,RH=90%	1000hrs.	0/100
Low Temperature	JEITA ED-4701			
Storage	200 202	Ta=-40℃	1000hrs.	0/100
Steady state				
Operating Life		Ta=25℃,IF=20mA	1000hrs.	0/100
Steady State				
Operating Life of				
High Humidity Heat		60℃,RH=90%,IF=20mA	500hrs.	0/100
Steady State				
Operating Life of				
Low Temperature		Ta=-30℃,IF=20mA	1000hrs.	0/100
Resistance to UV				
Beam		365nm/75W/mm	192hrs.	0/100

(2)Criteria For Judging The Damage

				Criteria for Judgement		
Item	Symbol	Test Conditions		Min.	Max.	
Forward Voltage	Vf	IF=20mA		-	U.S.L.*) x 1.1	
Reverse Current	Ir	VR=5V		-	U.S.L.*) x 2.0	
Luminous Intensity	lv	IF=20mA		L.S.L.**) x 0.7	-	
*)U.S.L:Up	per Standard Level		**)L.S.L:Lower Standard Level			

SICHUAN JIUZHOU APPLIED ELECTRONICS CO., LTD. SHENZHEN JIUZHOU OPTOELECTRONICS CO., LTD.
Jiuzhou Optoelectronics and the Jiuzhou logo are trademarks of Shenzhen Jiuzhou Optoelectronics, Corporation Limited in the Pepole's Republic of China and other
countries. Date subject to change. Copyright©2007 Shenzhen Jiuzhou Optoelectronics Corporation Limited.
All right reserved.