

SHEN ZHEN SPECTRUM LIGHTING TECHNOLOGY CO., LTD.

SPECIFICATION FOR APPROVAL

MODEL NO. J504-1 (A) WC

CUSTOMER

DEPARTMENT R&D

DEVICE NUMBER YX-A0001-00256-1

DATE 08/04/2020

RECEIVED SIGNATURES

CUSTOMER APPROVED SIGNATURES	PREPARED BY	CHECKED BY	APPROVED BY

***NOTES: THE LED PRODUCTS OF OUR FACTORY HAD BEEN CERTIFICATED BY SGS LABORATORY.**

ADD: 4/F, Building B, Yangjin Building, 1337 Sightseeing Road, Longhua New District, ShenZhen, China

TEL: 86-755-29733632

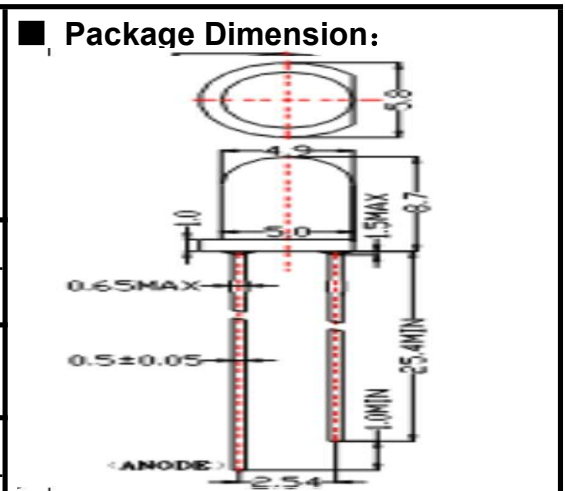
SHENZHEN SPECTRUM LIGHTING TECHNOLOGY CO.,LTD.

Model Number: J504-1 (A) WC Device Number: YX-A001-00256-1 Rev: 1

■ **Part Number :**
 ∅5.0×8.7mm Round With Flange LED Lamps

■ **Material Number :**

Model Number	Chip Material	Emitting Color	Lens Color
J504-1 (A) WC	InGaN/Sapphire	WHITE	WATER CLEAR



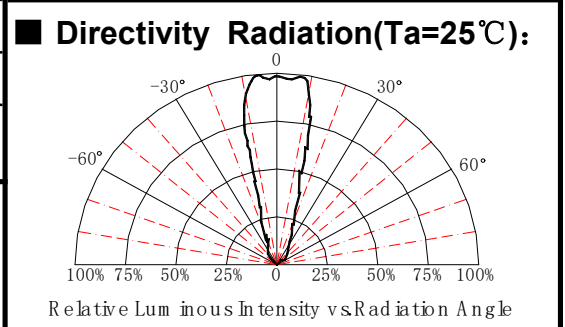
■ **Absolute Maximum Ratings(Ta=25°C):**

Items	Symbol	Absolute Maximum Rating	Unit
Power Dissipation	PD	110	mW
Forward Current(DC)	IF	30	mA
Peak Forward Current*	IFP	180	mA
Reverse Voltage	VR	5	V
Operation Temperature	Topr	-25~+80	°C
Storage Temperature	TStg	-30~+80	°C
Lead Soldering Temperature	TSOI	Reflow:260±5°C Hand:360±10°C for 3 sec (3mm from the base of the epoxy bulb)	

- **Notes:**
- All dimensions in mm tolerance is ±0.2mm unless otherwise noted.
 - An epoxy meniscus may extend about 1.5mm down the leads.
 - Burry around bottom of epoxy may be 0.5mm max.

* Pulse width ≤ 0.1msec duty ≤ 1/10

■ **Typical Electrical & Optical Characteristics(Ta=25°C,IF=20mA):**



Emitting Color	Forward Voltage(V)			Recommend Forward Current(mA)			Reverse Current(uA) VR=5V	Colour Temperature (CCT)			Luminous Intensity(mcd)			50% Power Angle(Deg)		
	Min.	Typ.	Max.	Min.	Typ.	Max.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.
WHITE	2,8	3,0	3,4	10	15	20	3	6000	8000	####	20000-25000mcd	/	15	/		

- **Notes:**
- 1.Tolerance of luminous intensity : ±15%
 - 2.Tolerance of dominant wavelength : ±1.0nm
 - 3.Tolerance of forward voltage : ±0.05V

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Typical Electrical/Optical Characteristics Curves: (Ta=25°C Unless Otherwise Noted)

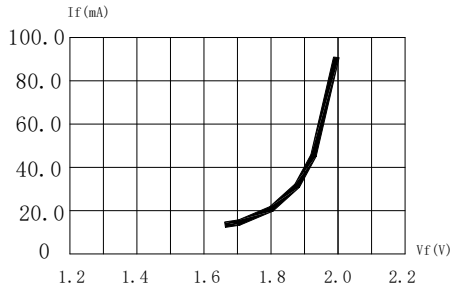


Fig.1 Forward Current vs Forward Voltage

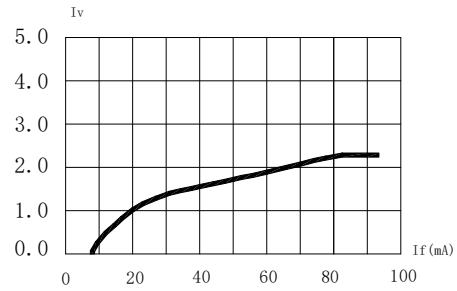


Fig.2 Relative Luminous Intensity vs Forward Current

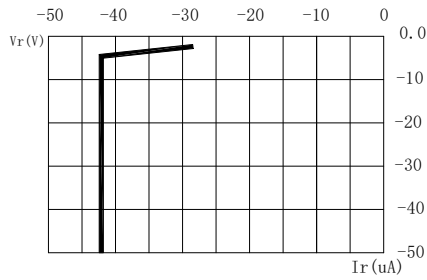


Fig.3 Reverse Current vs Reverse Voltage

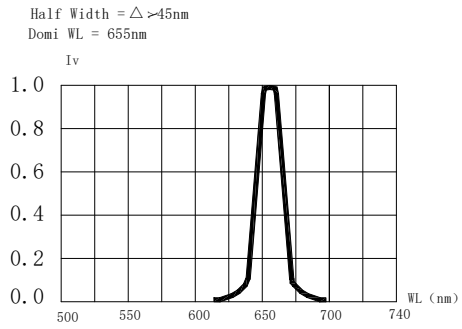


Fig.4 Relative Luminous Intensity vs Wavelength

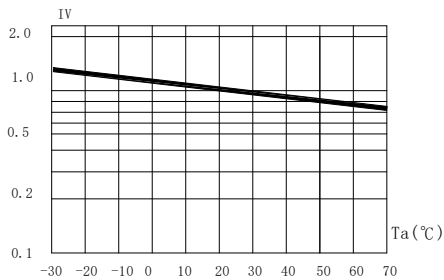


Fig.5 Relative Luminous Intensity vs Ambient Temperature

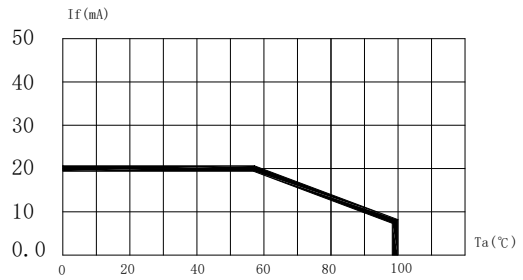


Fig.6 Maximum Forward Current vs Ambient Temperature

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Model Number: J504-1 (A) WC **Device Number:** YX-A0001-00256-1 **ev:** 1

■ Reliability test item and condition

NO	Item	Test Conditions	Test Hours/Cycle	Sample Size	Ac/Re
1	Solder Heat	Reflow:260±5℃	3 SEC	76pcs	0/1
2	Solder Heat	Hand:360±10℃	3 SEC	76pcs	0/1
3	Temperature Cycle	H:+85℃ 30min &5min L:-55℃ 30min	50CYCLE	76pcs	0/1
4	Thermal Shock	H:+100℃ 5min &10sec L:-10℃ 5min	50CYCLE	76pcs	0/1
5	High Temperature Storage	TEMP:100℃	100HRS	76pcs	0/1
6	Low Temperature Storage	TEMP:-55℃	100HRS	76pcs	0/1
7	DC Operating Life	IF=20mA	100HRS	76pcs	0/1
8	High Temperature High Humidity	85℃/85%RH	100HRS	76pcs	0/1

■ Criteria For Judging The Damage

Item	Symbol	Test Conditions	Criteria for judgment	
			Min.	Max.
Voltage(Forward)	VF	IF=20mA	-	U.S.L*)×1.1
Current(Reverse)	IR	VR=5V	-	U.S.L*)×2.0
Luminous Intensity	IV	IF=20mA	L.S.L**)×0.7	-

*)U.S.L.:Upper Standard Level.

**)L.S.L.:Lower Standard Level.

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