

3W high power led



Specification

Item No	Lens Color	Emitting Color	Forward Current(mA)	Forward Voltage(V)	Viewing angle(deg.)	Wavelength	Luminous flux(lm)
FZ-P003SWDX-XXXXP	Water clear	Pure white	700	3.00-4.00	120	5500-8000	160-220
FZ-P003WWDX-XXXXP	Water clear	warm white	700	3.00-4.0	120	2300-5500	160-220
FZ-P003BHX-XXXXP	Water clear	blue	700	3.00-4.20	120	450-475	30-80
FZ-P003GHX-XXP	Water clear	Green	700	3.00-4.20	120	490-530	120-180
FZ-P003AYDX-XXXXP	Water clear	Yellow	700	2.00-2.80	120	585-595	60-120
FZ-P003ORDX-XXXXP	Water clear	Red	700	2.00-2.80	120	620-630	60-120
FZ-P003IRX-XXXXP	Water clear	infrared	700	1.20-2.20	120	835-945	/
FZ-P003ALDX-XXXXP	Water clear	RGB	700	R: 2.00-2.60 G: 3.20-4.00 B: 3.20-4.00	120	R : 620-630 G : 490-530	R: 60-120 G: 120-180 B: 30-80

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1. Absolute Maximum Ratings

(Ta=25°C)

Item	Symbol	Absolute Maximum Rating	Unit
Forward Current	IF	700	mA
Pulse Forward Current	IFP	1000	mA
Allowable Reverse Current	IR	10	uA
Power Dissipation	PD	1	W
Operating Temperature	Topr	-30~+85	°C
Dice Temperature	Tstg	-40~+100	°C
Soldering Temperature	Tsod	260	°C

✧ IFP Conditions : Pulse Width ≤10msec. and Duty ≤1/10

✧ Soldering Time : ≤5 sec.

2. Electrical/Optical Characteristics

(Ta=25°C)

Item	Symbol	Condition	Min	Typ	Max	Unit
Forward Voltage	VF	IF=700[mA]	3.0		3.6	V
Allowable Reverse Current	IR	VR=5[V]	0		10	uA
Luminous Flux	Φv	IF=700[mA]		200		lm
Temperature Color	TC	IF=700[mA]	6500		7500	K
Chromaticity	x	-		0.45		
Coordinate	y	-		0.40		
Viewing Angle	2θ1/2	IF=700[mA]		120		

✧ Please refer to CIE 1931 chromaticity diagram

✧ Viewing Angle Measurement allowance is ±5%

3. Ranking

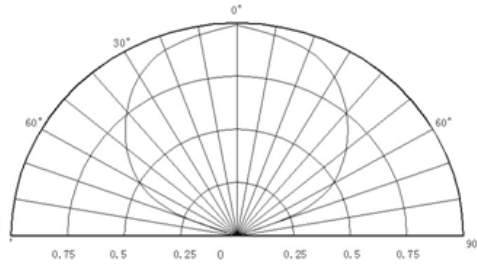
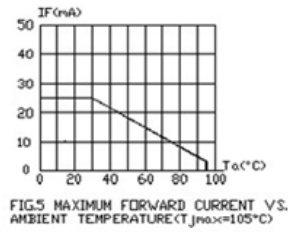
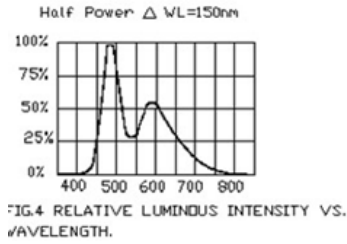
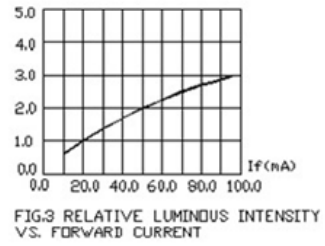
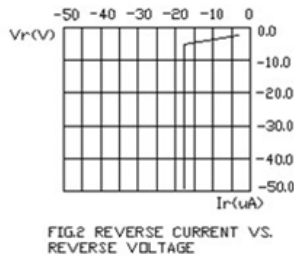
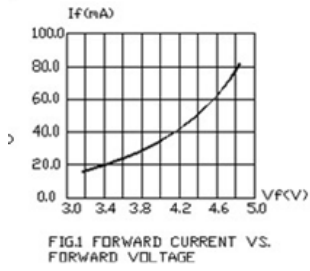
(Ta=25°C)

Item	Symbol	Condition	BIN CODE	Min	Max	Unit
Forward Voltage	VF	IF=350[mA]	E	2.8	3.0	V
			F	3.0	3.2	
			G	3.2	3.4	
			H	3.4	3.6	
			I	3.6	3.8	
			J	3.8	4.0	
Luminous Flux	Φv	IF=350[mA]	P	160	180	lm
			Q	180	190	
			R	190	200	
			S	200	210	
			T	210	220	

✧ Forward Voltage Measurement allowance is ±3%

✧ Luminous Intensity Measurement allowance is ±10%

4. Typical Electrical Optical Characteristics Curves((Ta=25°C Unless Otherwise Notes)



5. Tested Lumens Data

SSP3112 可见光LED分光分色测试系统 v1.1.4.1.12 - [光谱波长分析与测量]

系统设置(S) 光谱分析(S) 其他测量(E) 系统校准(C) 数据库(D) 帮助(H)

Peak = 572.5nm 光谱功率能量分布P(λ) (380.0nm, 780.0nm) 色品图

主波长 λ _d :	574.9 nm	色坐标 (x, y):	(.3822, .3968)	光通量 Φ:	174.04 lm	正向电压 VF:	3.97 V
峰值波长 λ _p :	572.5 nm	色坐标 (u, v):	(.2185, .3402)	光效率 η _v :	62.64 lm/W	反向漏流 IR:	0.16 uA
峰值带宽 Δλ:	103.2 nm	色纯度 Pe:	0.338	电功率 P _P :	2778.42 mW	黄色度 YI:	64.3
能量比:	100.00 %	色温 T _c :	4090 K	红色比 R:	29.0 %		
显色指数 Ra:	061						

曝光时间 IT: 2.0 ms 设置

正向电流 IF: 700.00 mA 设置

反向电压 VR: 5.0 V 设置

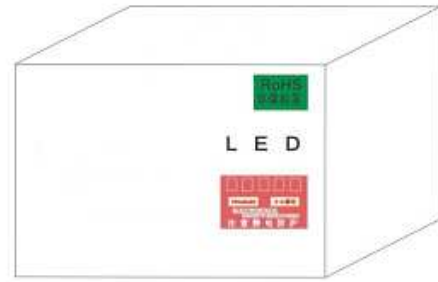
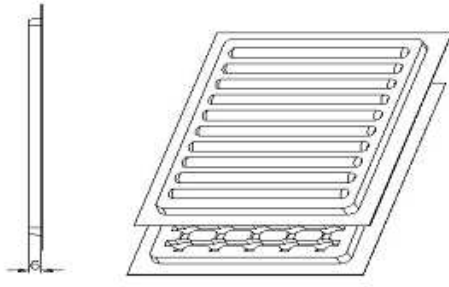
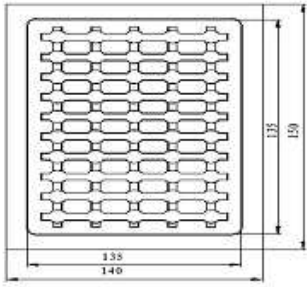
光参数: 类型: 光通量 颜色: 白 量程: 1档

型号: StarSpec 编号: 1

快速采样 保存数据

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6..Packing Measurement



Inner Cardboard

Carton Packing

NOTES:

1. All Dimensions are in mm.
2. There are 50pcs emitters in a inner cardboard.
3. There are three kind of cartons: 0.5k,1k,2k.

7.Application:

- Reading lights
- Portable flashlight
- Up-lights and Down-lights
- General lights
- Contour lights
- Ceiling lights
- Garden lights
- Streetlights
- Mining lights
- Decoration lights
- Architectural lighting

