

# 30 W high power led

## Feature

1. High light brightness arrives 1,800lm-2,700lm
2. Low light attenuation
3. Long operating life up 50,000hs
4. High color rendering
5. Flare with well-balanced
6. Superior ESD defernse
7. More durable performance
8. No UV and IR radiation and other harmful rays
9. High CRI
10. Street lamps, spotlights, architectural lighting landscapes, lighting exterior illumination, and so on

## Specification

Item No	Lens Color	Emitting color	Forward Current(mA)	Forward Voltage(V)	Angle(deg.)	Dominant Wavelength(nm)	Lum Flux
FZ-P030SWEX-XXXTC	Water clear	Pure white	1400	21-28	140	5500-8000	60-9
FZ-P030WWEX-XXXTC	Water clear	Warm white	1400	21-28	140	2300-5500	60-9
FZ-P030BHEX-XXXTC	Water clear	Blue	1400	22. 4-29. 4	140	450-475	15-4
FZ-P030GHEX-XXXTC	Water clear	Green	1400	22. 4-29. 4	140	490-530	60-9
FZ-P001AYEX-XXXTA	Water clear	Yellow	1400	14-19. 6	140	585-595	30-6
FZ-P001OREX-XXXTA	Water clear	Red	1400	14-19. 6	140	620-630	30-4
FZ-P001IREX-XXXTA	Water clear	Infrared	1400	8. 4-15. 4	140	835-945	/

## 1. AbsoluteMaximumRatings

(Ta=25°C)

Item	Symbol	Absolute Maximum Rating	Unit
Forward Current	IF	1400	mA
Pulse Forward Current	IFP	2000	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/OpticalCharacteristics

(Ta=25°C)

Item	Symbol	Condition	Min	Typ	Max	Unit
Forward Voltage	VF	IF=1400[mA ]	21.0		28.0	V

Allowable Reverse Current	IR	VR=5[V]	0		10	uA
Luminous Flux	$\Phi_v$	IF=1400[mA]		1800	2700	lm
Temperature Color	TC	IF=1400[mA]	6500		7500	K
Chromaticity Coordinate	x	-	IF=1400[mA]	0.45		
	y	-	IF=1400[mA]	0.40		
Viewing Angle		2 $\theta$ 1/2	IF=1400[mA]	140		

◇ Please refer to CIE 1931 chromaticity diagram

◇ Viewing Angle Measurement allowance is  $\pm 5\%$

### 3. Ranking

(Ta=25°C)

Item	Symbol	Condition	BIN CODE	Min	Max	Unit
Forward Voltage	VF	IF=1400[mA]	E	21	25	V
			F	25	27	
			G	27	28	
Luminous Flux	$\Phi_v$	IF=1400[mA]	P	1500	1800	lm
			Q	1800	2100	
			R	2100	2400	

◇ Forward Voltage Measurement allowance is  $\pm 3\%$

◇ Luminous Intensity Measurement allowance is  $\pm 10\%$

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

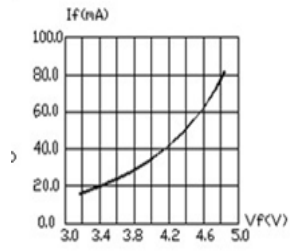


FIG1 FORWARD CURRENT VS. FORWARD VOLTAGE

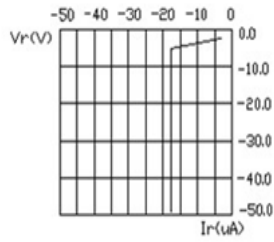


FIG2 REVERSE CURRENT VS. REVERSE VOLTAGE

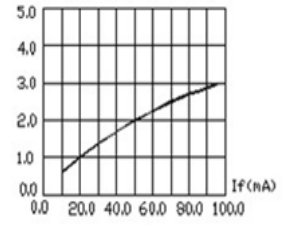


FIG3 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT

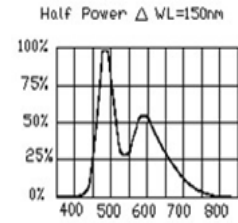


FIG4 RELATIVE LUMINOUS INTENSITY VS. WAVELENGTH.

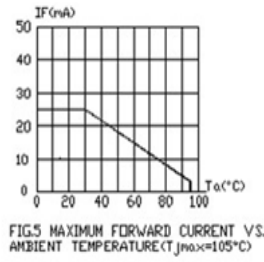
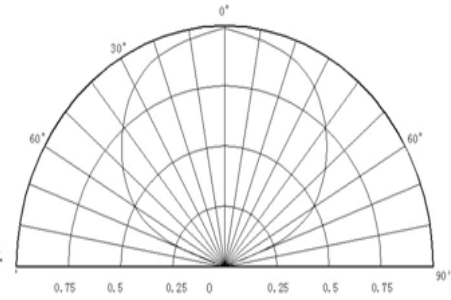
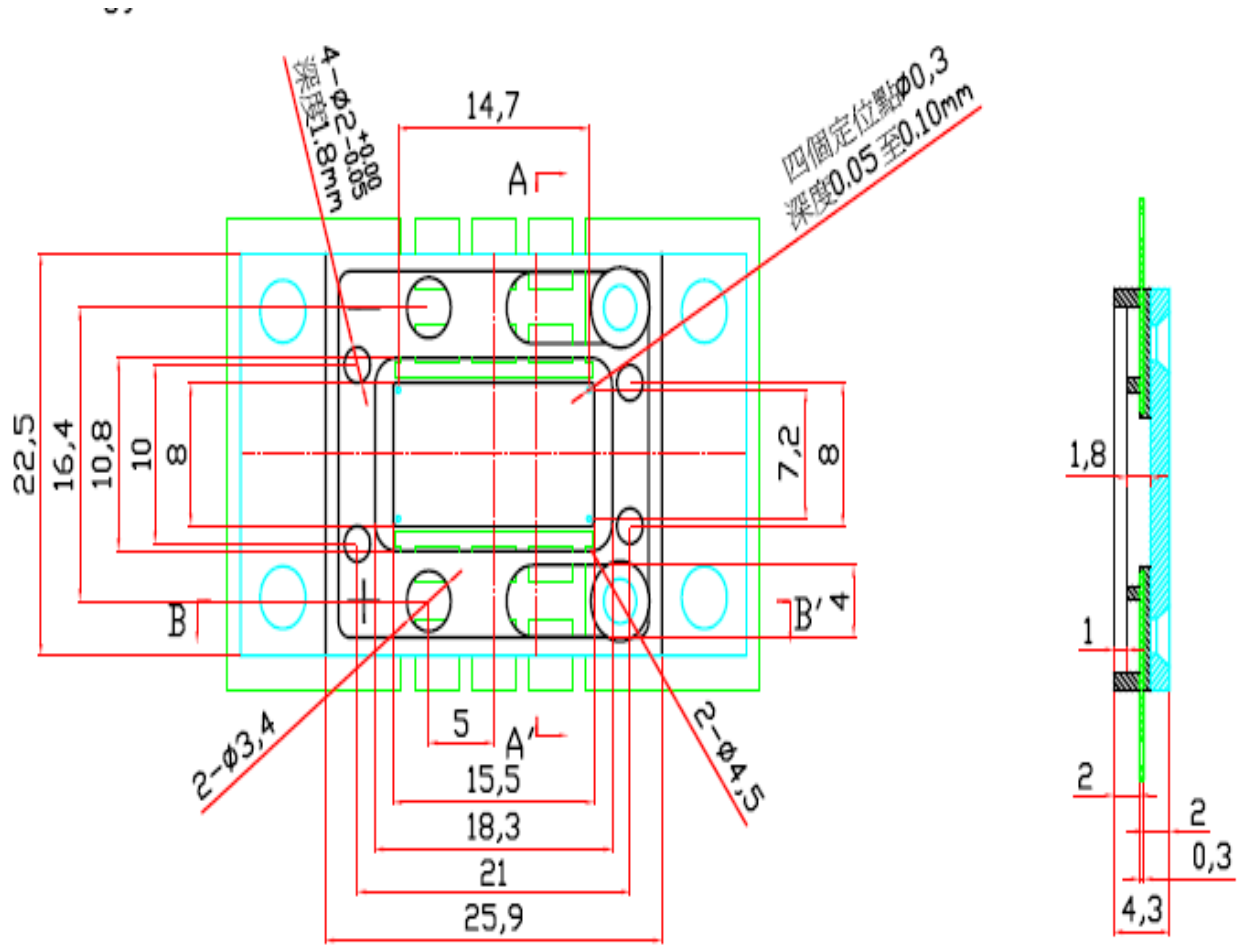


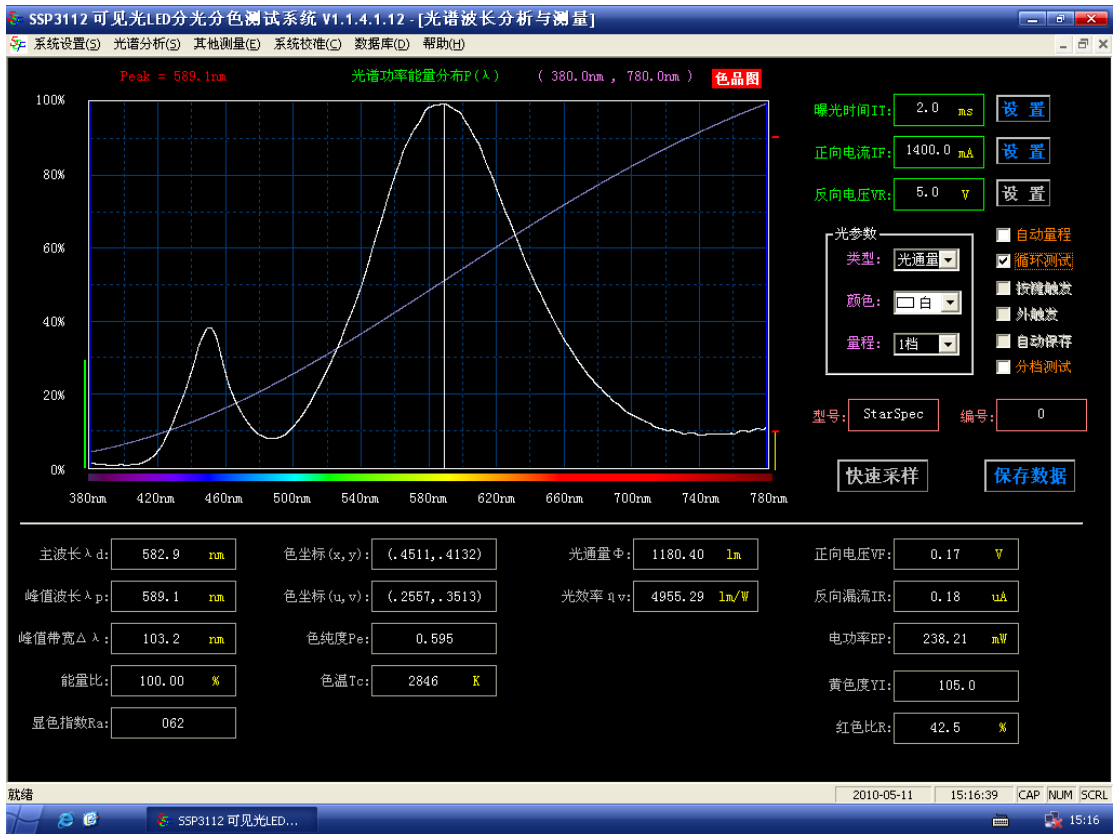
FIG5 MAXIMUM FORWARD CURRENT VS. AMBIENT TEMPERATURE (Tjmax=105°C)



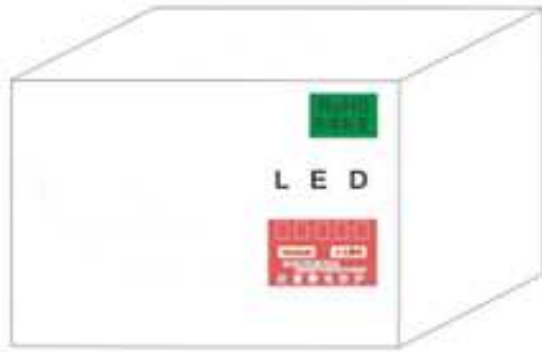
## 5. Lens Dimensions(mm)



## 6. Tested Lumens Data



## 7..Packing Measurement



### Carton Packing

#### NOTES:

1. Dimensions are in mm.
2. There are 50pcs emitters in a inner cardboard
3. There are three kind of cartons: 0.5k,1k,2k
4. A pc emitter to a shockproof particular anti -ESD plastics bag

#### 8.Application:

Street Lighting, Architectural Lighting, Spot Light

