
Description

Features.

- ◆ Super high Flux output and high Luminance
- ◆ Adapt to large current circuit
- ◆ Low thermal resistance:12°C/W
12°C/W
- ◆ Wide viewing angle , Integrated package
- ◆ RoHS compliant

Applications.

- ◆ General Lighting
- ◆ Architectural lighting
- ◆ Decorative lighting
- ◆ Flood lights, cast light lamps
- ◆ Street lamp, tunnel lamp

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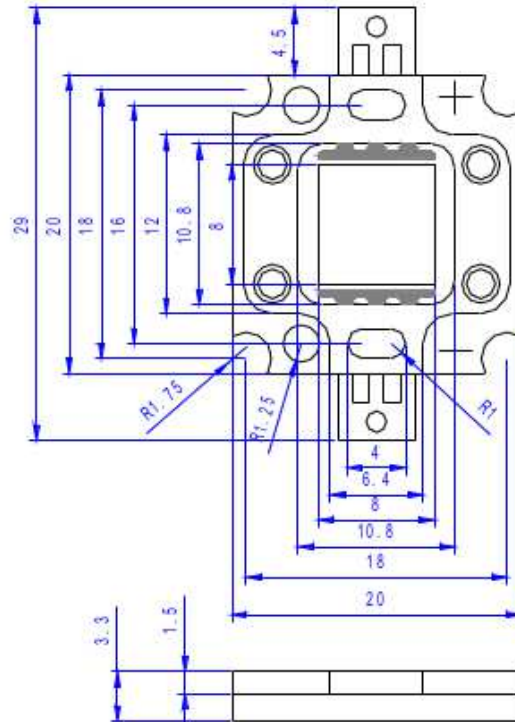
Typical Characteristic Curves (2)

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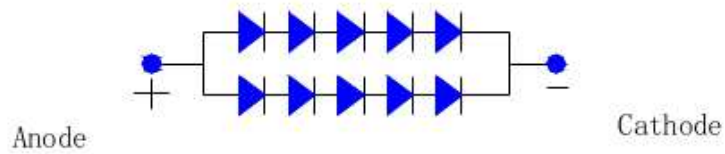
Outline Dimensions

1、 Dome Type



2、 Circuit diagram

INTERNAL CIRCUIT DIAGRAM



Notes :

1. All dimensions are in millimeters.(tolerance:±0.2)

2. Dimension Scale:1:1

*The appearance and specifications of the product may be changed for improvement without notice.

Parameters

Electrical-Optical Characteristics at Ta=25°C

Parameter	Symbol	Min	Typ	Max	Unit
Luminous Flux	ϕ_v	1000	~	1100	lm
Correlated Color Temperature./Wavelength	CCT / λ_D	9000	~	15000	K / nm
CRI	Ra	60	~	90	~
Forward Voltage	V _F	15	~	18	V
Power Dissipation	P _D	~	10.5	~	W
View Angle	2 θ 1/2	~	120	~	deg.
Thermal Resistance	R θ_{J-B}	~	12	~	°C/W

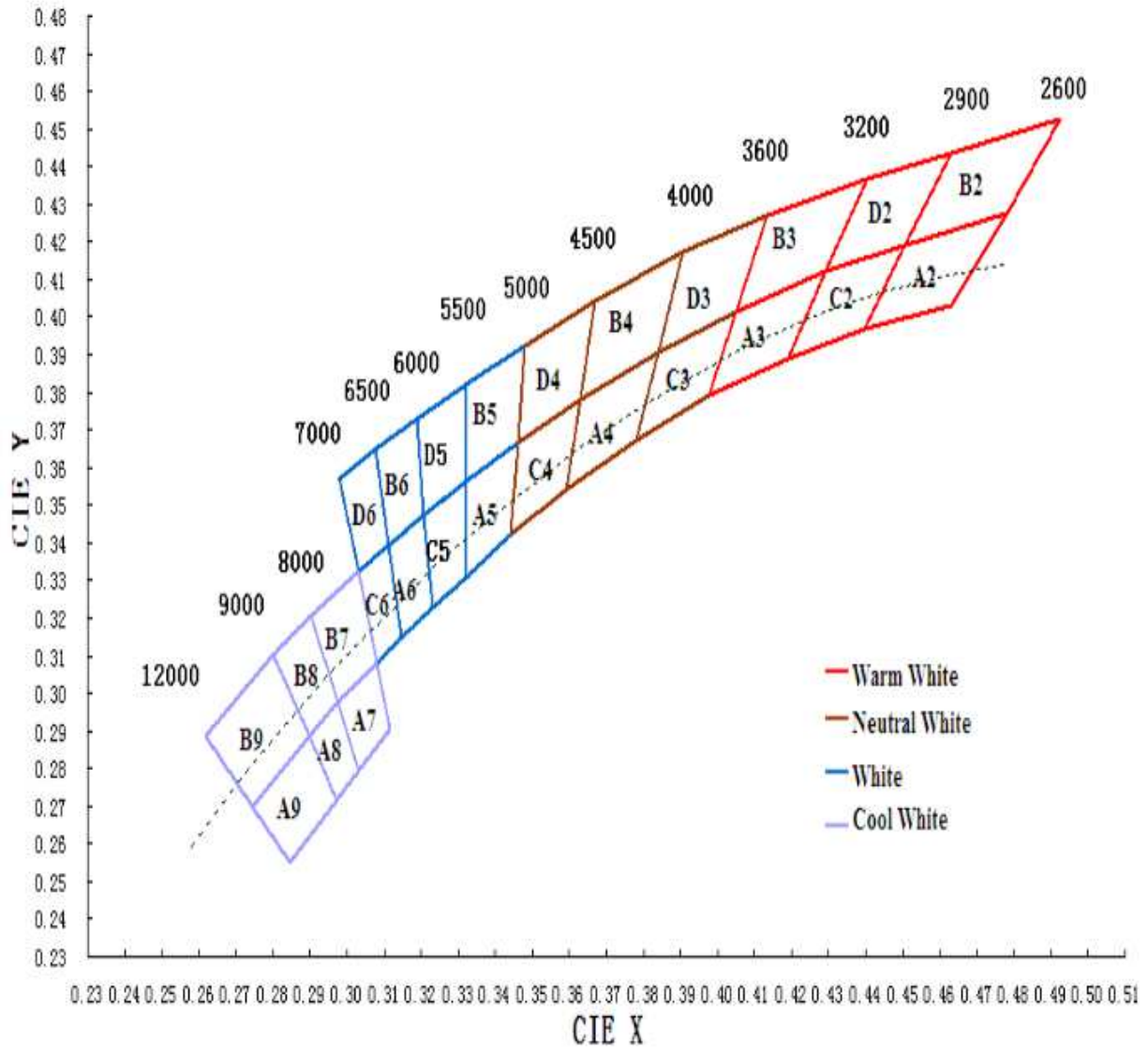
Absolute Maximum Ratings

Parameter	Symbol	Value	Unit
Forward Current	I _F	700	mA
Junction Temperature	T _j	115	°C
Operating Temperature	T _{opr}	-40~+60	°C
Storage Temperature	T _{stg}	0~+60	°C
ESD Sensitivity	~	±2,000V HBM	~
Reverse Voltage	V _R	Not designed for reverse operation	

*Notes

1. Tolerance of Luminous Flux is ±3%.
 2. Tolerance of Forward Voltage is ±0.1V.
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White Bining Information

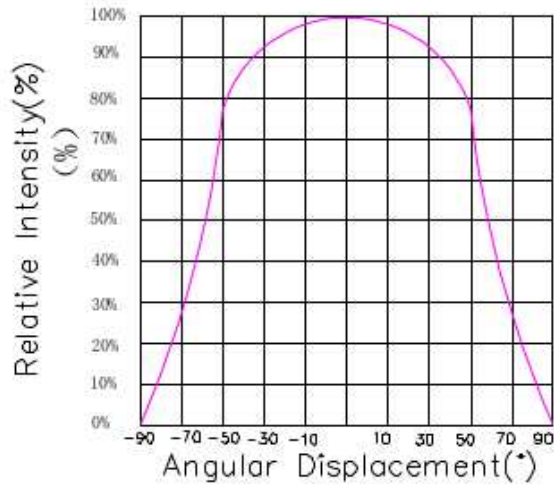


***Notes**

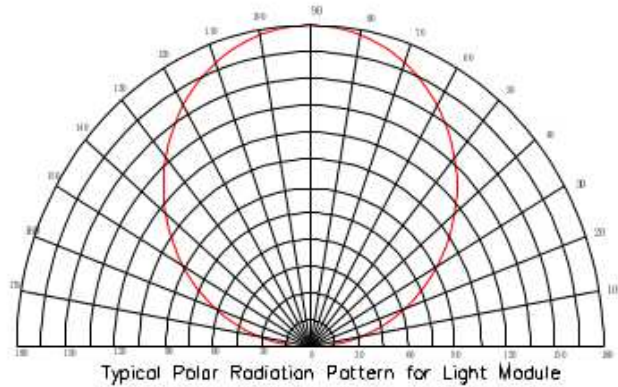
The black line represents the blackbody locus on CIE 1931 graph.

Typical Characteristic Curves(1)

1. Typical Light Distribution Curve

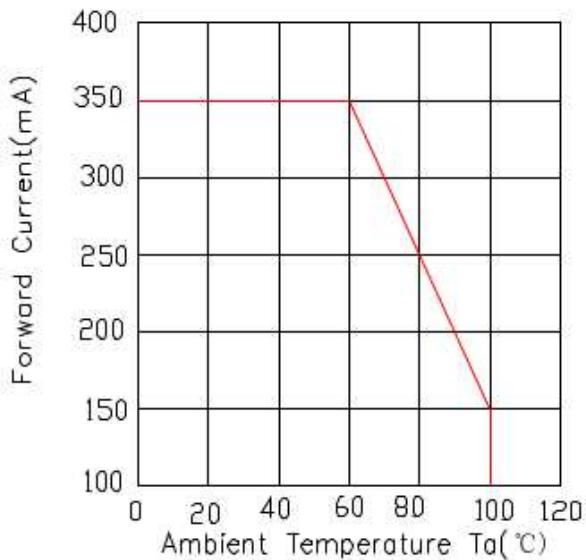


2. Typical Light-Emitting Angle Radiation Pattern

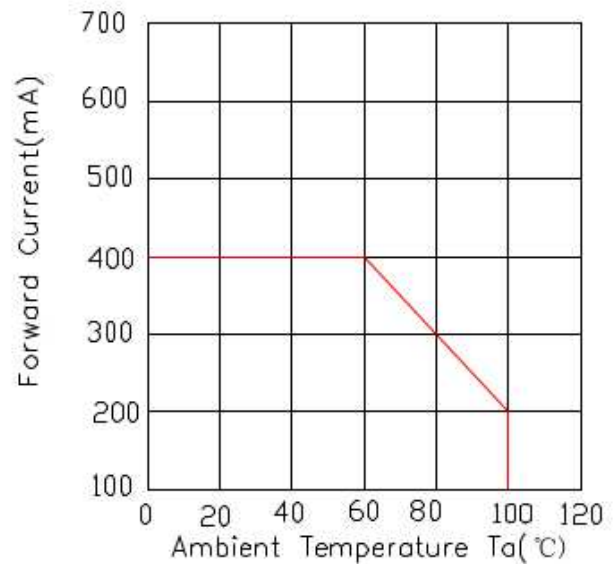


3. Forward Current Derating Curve, Derating based on $T_{imax}=115^{\circ}C$

3-1: White, Royal Blue, Blue, Green

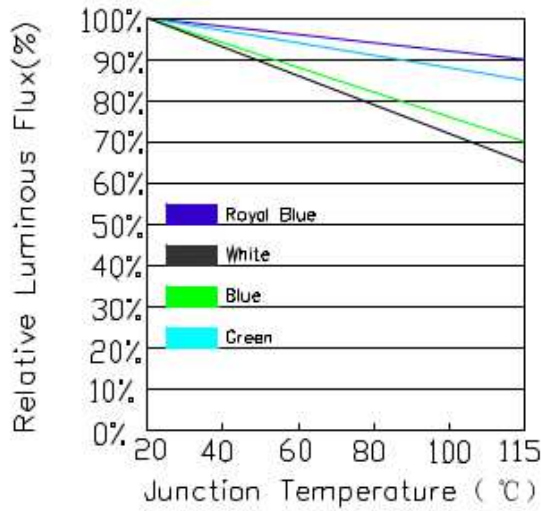


3-2: Amber, Red

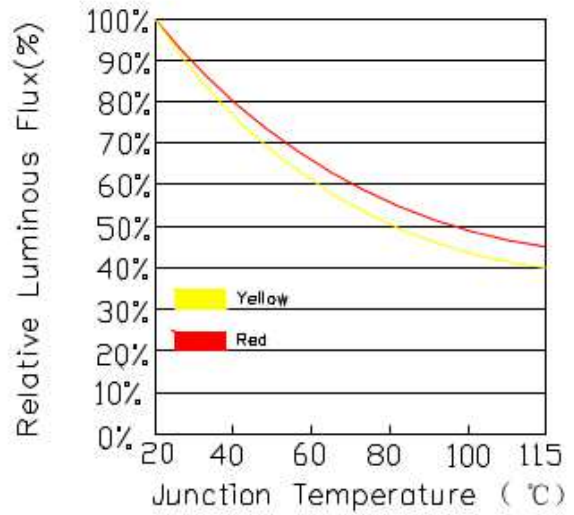


Typical Characteristic Curves(2)

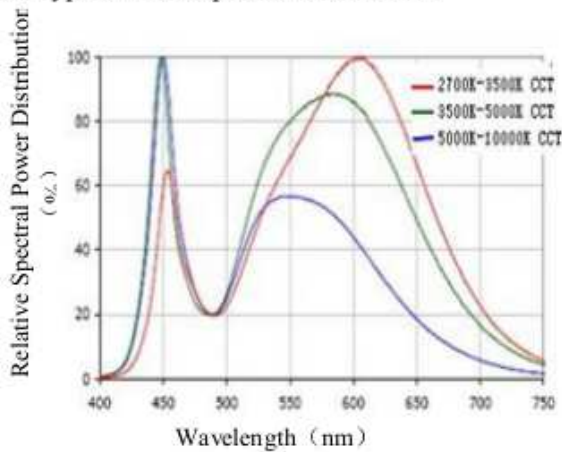
4-1. Relative Flux vs. Junction Temperature White, Royal Blue, Blue, Green



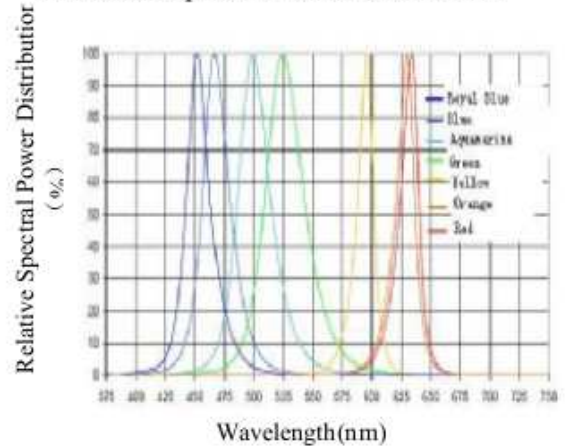
4-2. Relative Flux vs. Junction Temperature Amber, Red



5. Typical white spectral distribution



6. Relative Spectral Power Distribution



Reliability Test Items And Conditions

Test Items	Test Condition	Test Hours Cyles	Sample Size	Ac/Re
DC Aging	Ta=25℃ IF=700mA	1000H	22	0/1
Hot and cold shock	-40℃/30min +100℃/30min	100Cycles 100	22	0/1
High Temperature Storage	Ta=100℃	1000H	22	0/1
High Temperature High Humidity	85℃/85%RH	1000H	22	0/1
Low Temperature Storage	Ta=-40℃	1000H	22	0/1
ESD(HBM)	2000V HBM	1Time	10	0/1

Criteria For Judging the Damage

Items	Symbol	Test Condition	Criteria For Judging Damage
Forward Voltage	V _F	I _F =700mA	Initial Data±10%
Reverse Current	I _R	V _R =25V	I _R ≤20μA
Luminous Flux	φ _v	I _F =700mA	Average φ _v degradation≤30% Single LED φ _v degradation≤50%

Soldering Condition

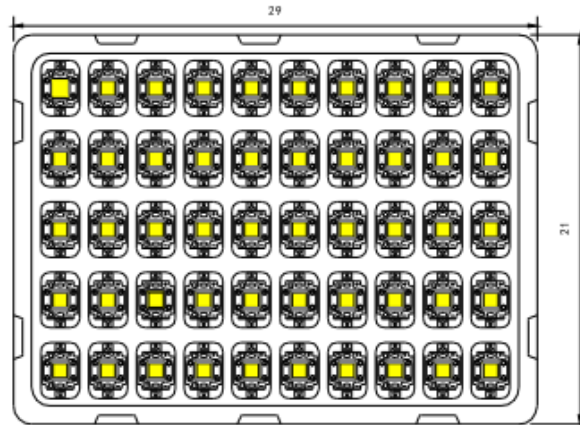
Only By Manual Welding

Temperature	Soldering time
Highest 350°C	3ses once

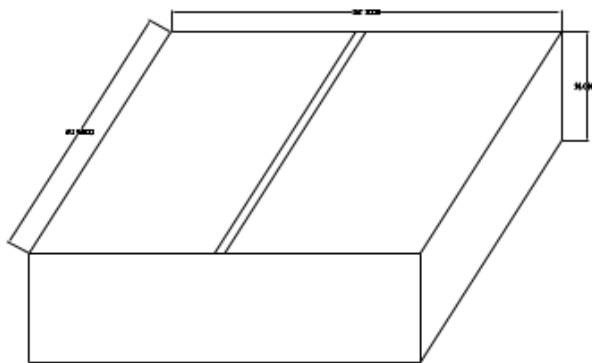
*Notes

Module holder products don't use reflow soldering.

Packing Dimention



Inner pack



Outer pack
