SPECIFICATION

发光二级管规格书

CUSTOMER NAME : _____

PART No. : KTH1W80-W1

COLOR : 1W White High Power LED

ISSUE DATE : _____

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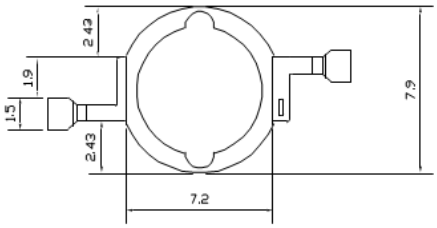
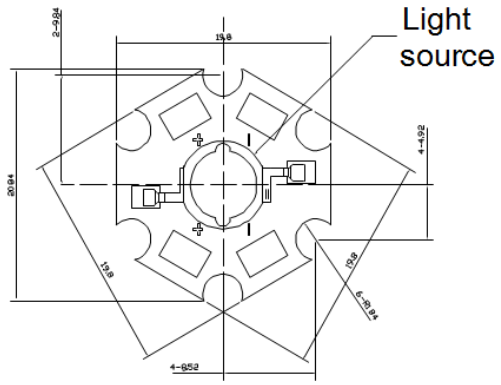
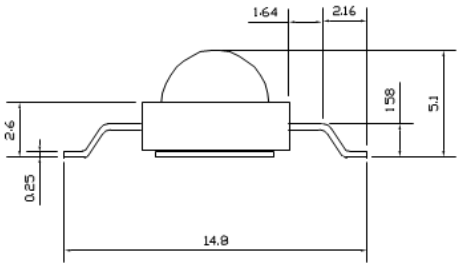
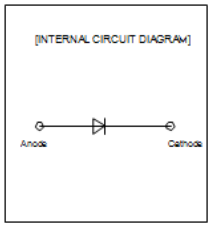
_____

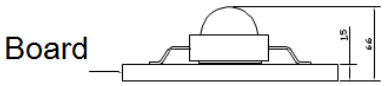
Mechanical Dimensions:











NOTE：

1. All dimensions are in millimeters.
2. All dimensions without tolerances are for reference only.
3. Material as follows:

Package: Heat-Resistant Polymer
Electrodes: Cu Plating Copper Alloy

Absolute Maximum Ratings at Ta=25℃

Item	Symbol	Absolute Maximum Rating	Unit
DC Forwar Curren dt	I_F	350	mA
Peak Forward Current	I_F	500	mA
Reverse Voltage	V_R	5	V
Power Dissipation	P_D	1000	mw
Electrostatic discharge	ESD	±4500	V
Operation Temperature	Topr	-40~+80	℃
Storage Temperature	Tstg	-40~+100	℃
LeadSoldering Temperature	Tsol	Max.260℃ for 6 seconds Max.	

Notes: * IFP Conditions: pulse Width≤10msec.

* All high power emitter LED products mounted on aluminum metal-core printed circuit board, can be lighted directly, but we do not recommend lighting the high power products for more than 5 seconds without a appropriate heat dissipation equipment.

Electrical Optical Characteristics at Ta=25℃

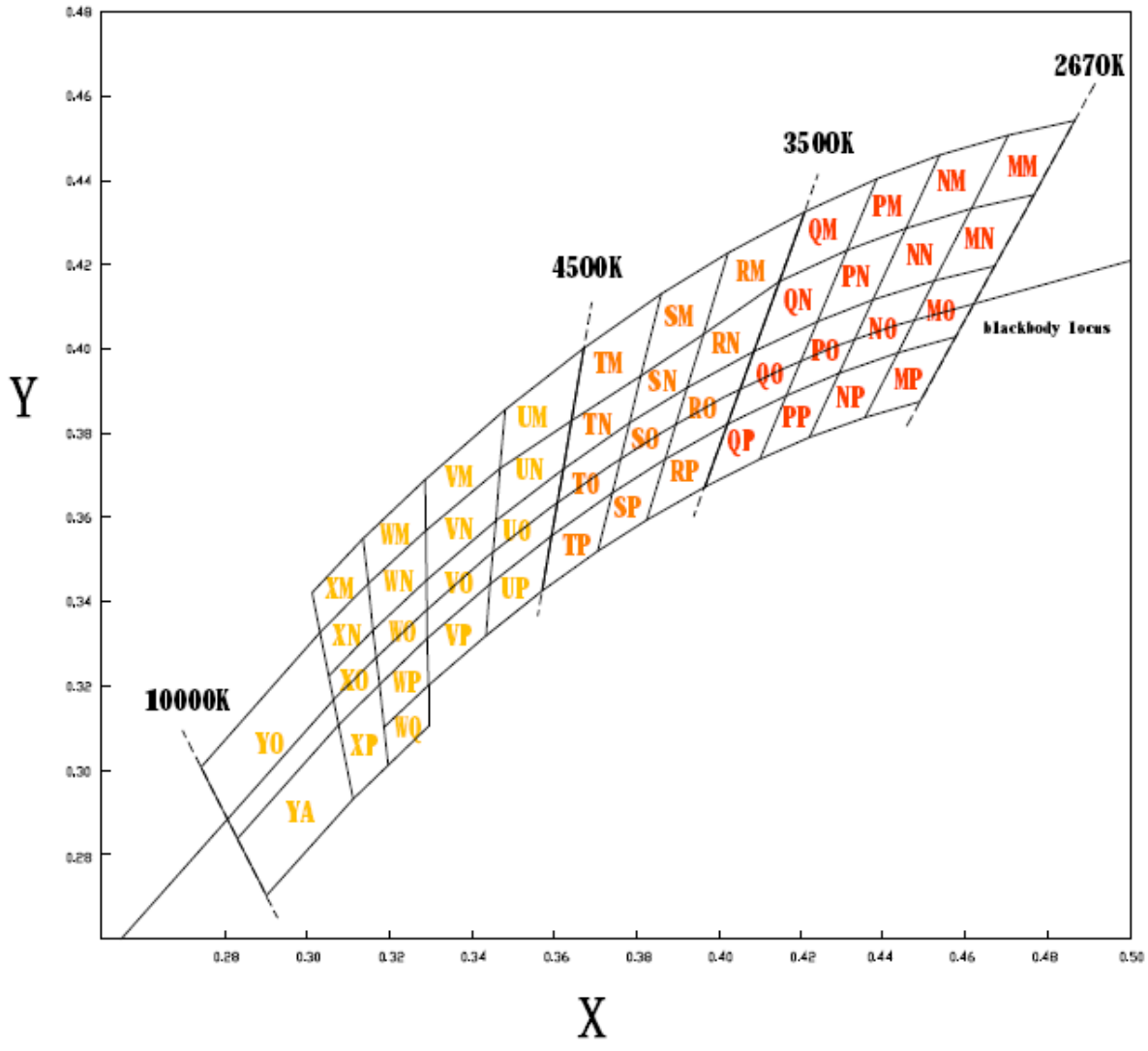
Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Forward Voltage	V_F	3.2	---	3.6	v	I_f=350mA
Reverse Current	I_R	---	---	50	uA	VR=5v
50% Power Angle	2θ1/2	---	140	---	deg	I_F=350mA
Luminous Intensity	φ_v	90	---	100	lm	I_F=350mA
Chromaticity	T c	2700	---	3500	K	I_F=350mA

Notes: 1.Tolerance of measurement of forward voltage±0.1V.

2.Tolerance of measurement of peak Wavelength±2.0nm.

3.Tolerance of measurement of luminous intensity±15%.

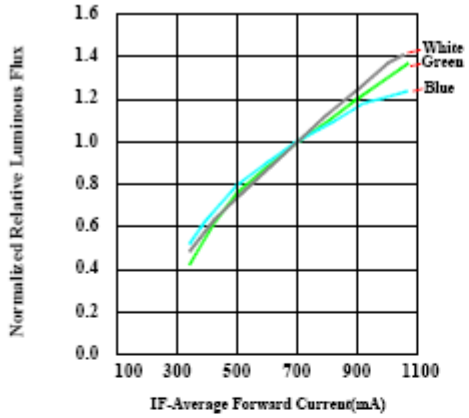
White Binning Information



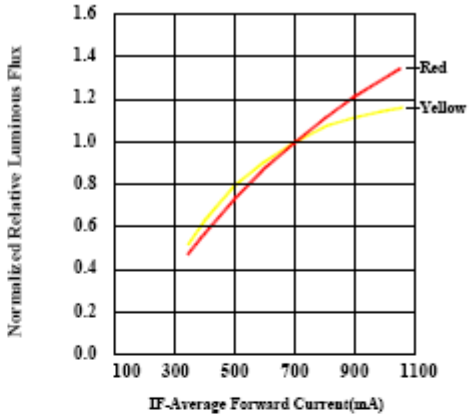
White Binning Structure

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

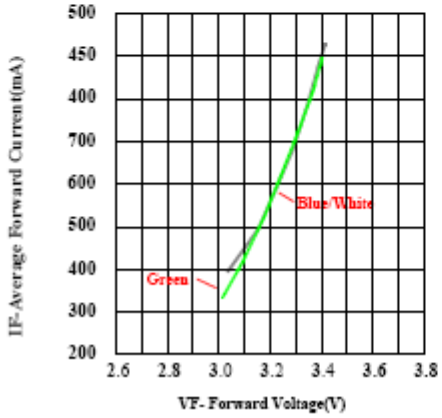
Forward Current Characteristics



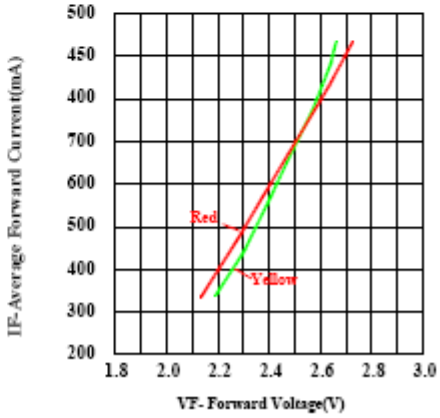
Relative Luminous Flux vs. Forward Current
for White/Green/Blue



Relative Luminous Flux vs. Forward Current
for Red/Yellow

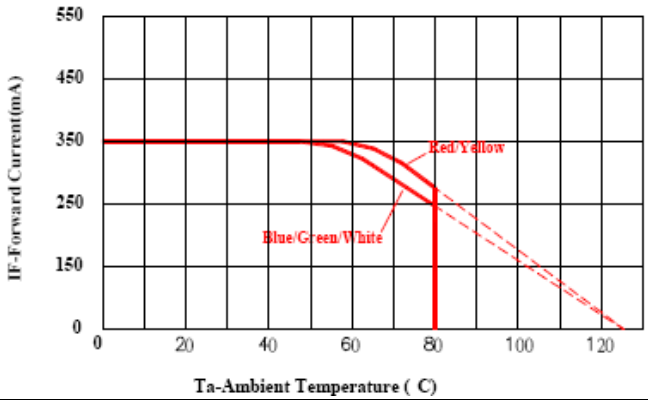


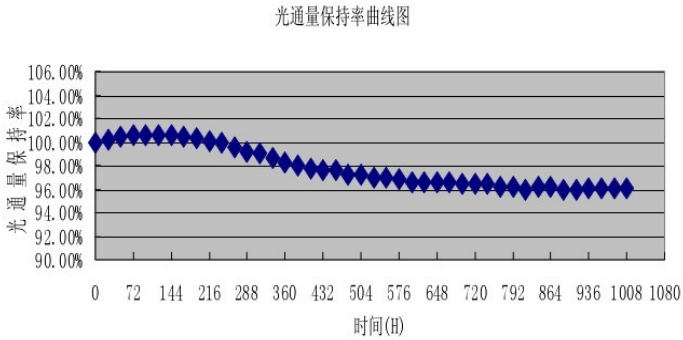
Forward Current vs. Forward Voltage
for White/Green/Blue



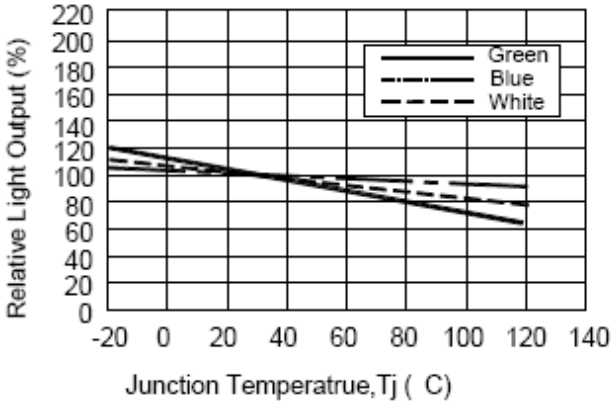
Forward Current vs. Forward Voltage
for Red/Yellow

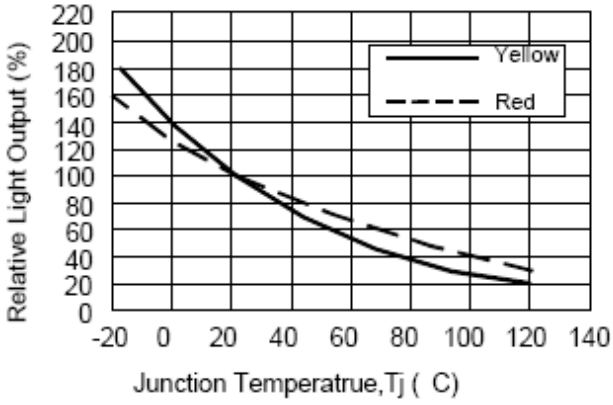
Current Derating Curves



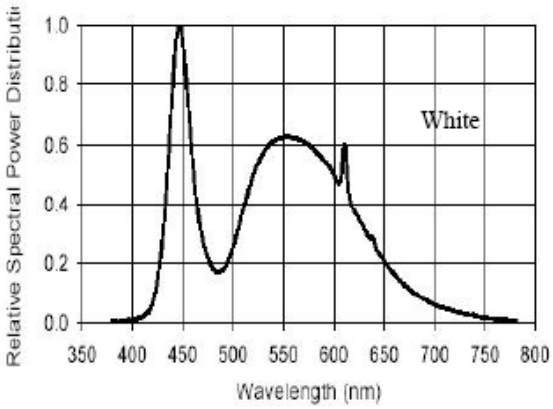


Light Output Characteristics

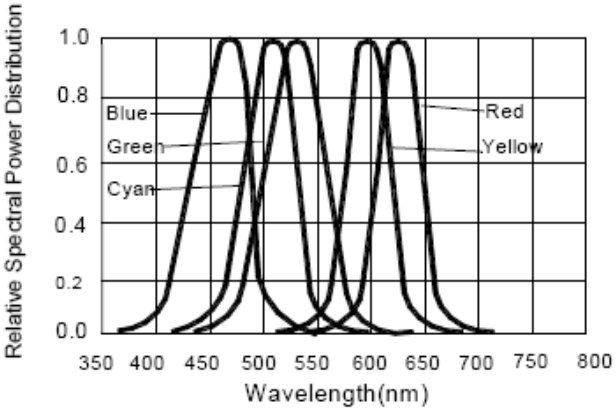




Wavelength Characteristics



Relative Intensity vs Wavelength (nm)



Relative Intensity vs. Wavelength(nm)

Typical Representative Spatial Radiation Pattern of single LED