

SPECIFICATION

发光二极管规格书



CUSTOMER NAME : _____

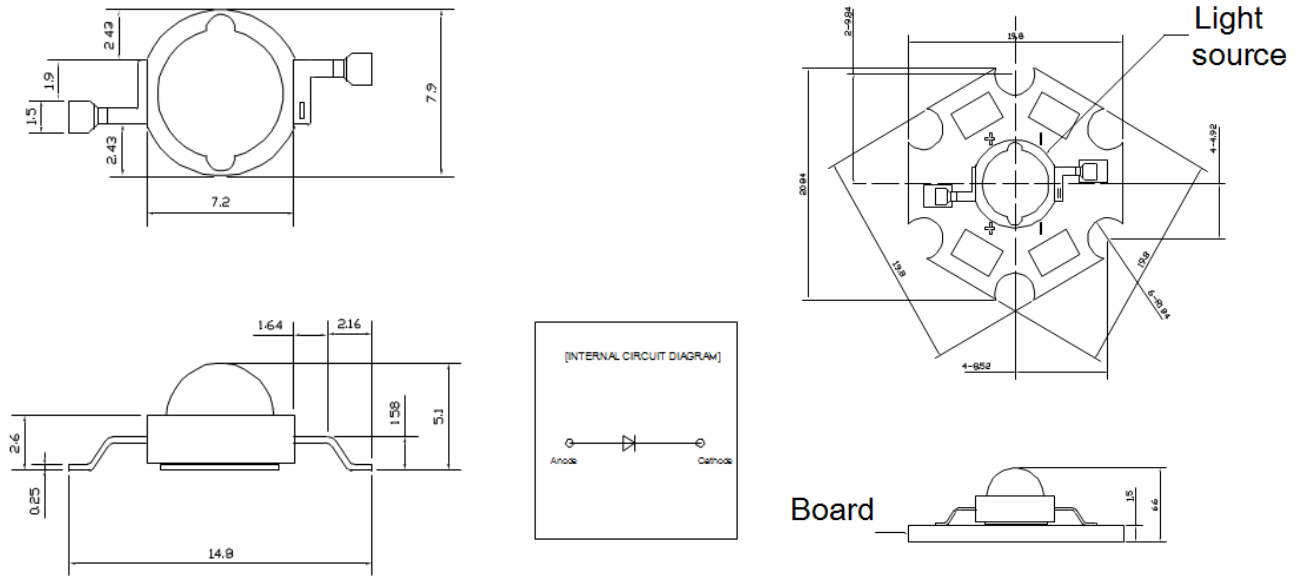
PART No. : KTH1W80-C1

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°C

Item	Symbol	Absolute Maximum Rating	Unit
DC Forward Current	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	°C
Storage Temperature	Tstg	-40~+100	°C
LeadSoldering Temperature	Tsol	Max.260°C for 6 seconds Max.	

Notes:* IFP Conditions: pulse Width $\leq$ 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°C

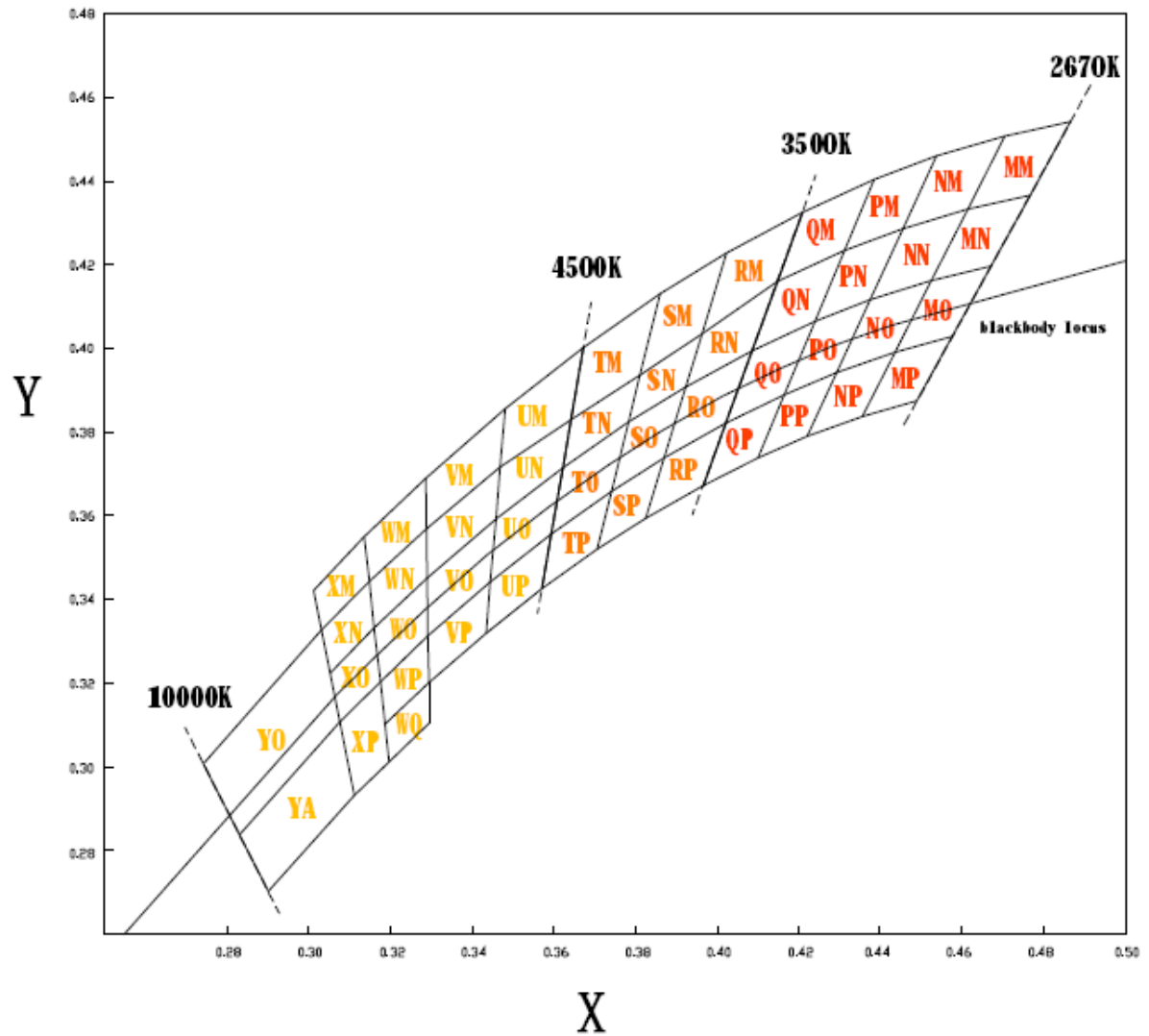
Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Forward Voltage	V_F	3.2	---	3.6	v	$I_F=350mA$
Reverse Current	I_R	---	---	50	uA	$V_R=5v$
50% Power Angle	$2\theta_{1/2}$	---	140	---	deg	$I_F=350mA$
Luminous Intensity	ϕ_v	90	---	100	lm	$I_F=350mA$
Chromaticity	T c	6500	---	7000	K	$I_F=350mA$

Notes:1.Tolerance of measurement of forward voltage $\pm 0.1V$.

2.Tolerance of measurement of peak Wavelength $\pm 2.0nm$.

3.Tolerance of measurement of luminous intensity $\pm 15\%$.

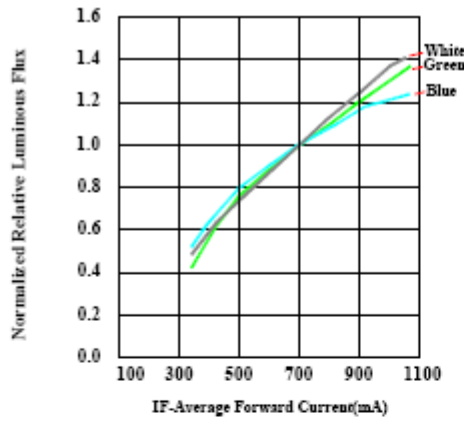
White Binning Information



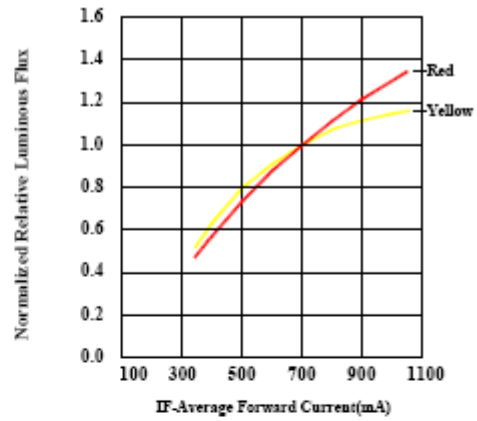
White Binning Structure

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

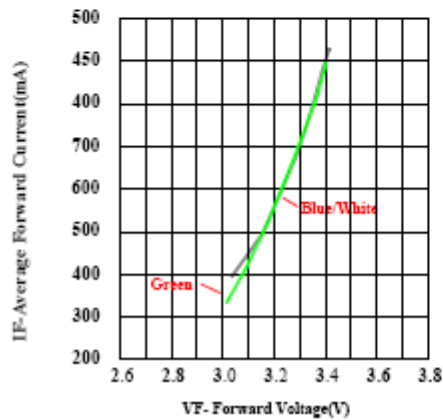
Forward Current Characteristics



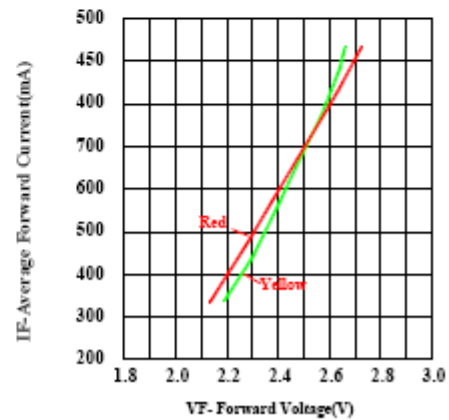
Relative Luminous Flux vs. Forward Current
for White/Green/Blue



Relative Luminous Flux vs. Forward Current
for Red/Yellow

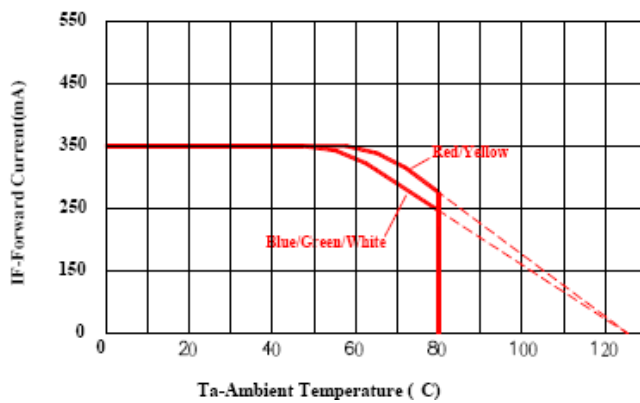


Forward Current vs. Forward Voltage
for White/Green/Blue

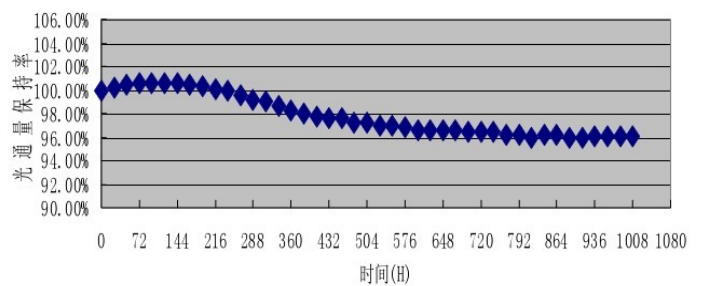


Forward Current vs. Forward Voltage
for Red/Yellow

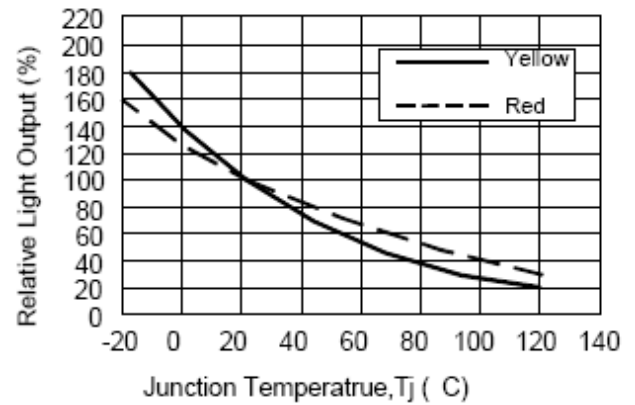
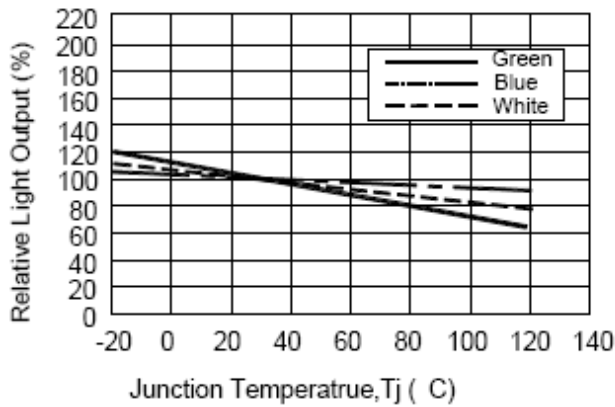
Current Derating Curves



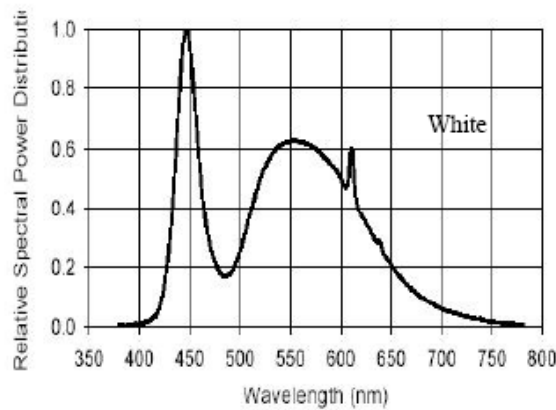
光通量保持率曲线图



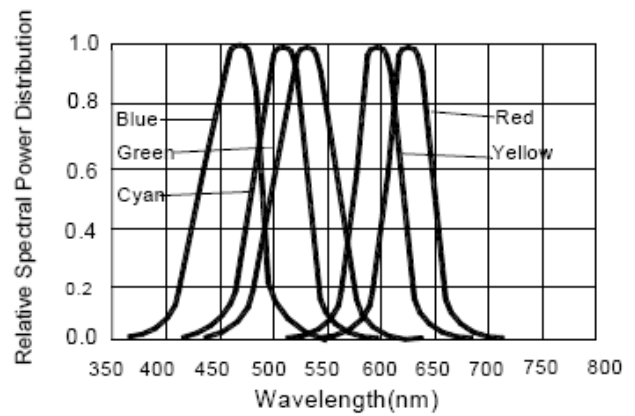
Light Output Characteristics



Wavelength Characteristics



Relative Intensity vs Wavelength (nm)



Relative Intensity vs. Wavelength(nm)

Typical Representative Spatial Radiation Pattern of single LED

