



## 产品规格书

### SPECIFICATION

客户名称 Customer Name					
客户料号 Customer No.					
产品描述 Product Description			SIDE VIEW WHITE LED 0.06W		
产品型号 Product Model			HS-3806- UW		
鸿之森确认 Orient Confirm			客户确认 Customer Confirm		
批准 Approved by	审核 Checked by	编制 Prepared by	批准 Approved by	品质 Quality	工程 Engineering
Zhongjiang	Zhouyuanjie	Huanghaijun			
结果判定: Judge outcome		OK	结果判定: Judge outcome		





## ● Features

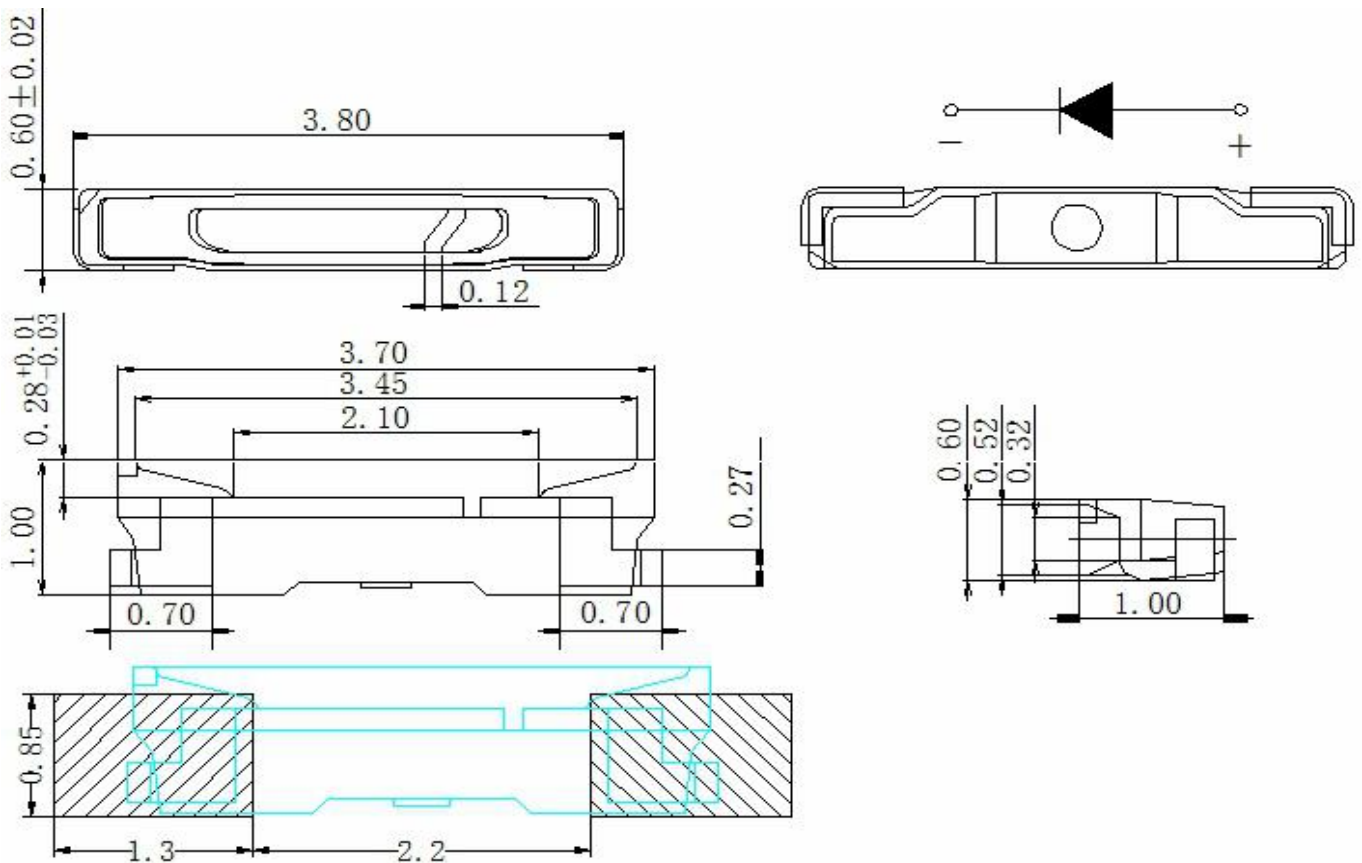
- Package: 3.8\*1.0\*0.6mm
- Emitted colour:White
- Soldering methods:SMT assembly available
- RoHS compliant & Pb free

## ● Applications

- LCD backlight
- Decoration lighting
- Mobile phone, panel computer backlight



## ● Package Outline Dimensions



Recommended soldering pad design

Notes:tolerances Unless Dimension:

X.X ±0.1, X.XX±0.05, Unit=mm

Notes:

- 1、 All dimensions are in millimeters.
- 2、 Tolerances are ±0.02mm unless otherwise noted.



● Absolute maximum ratings at Ta=25°C

Parameter	Symbol	Typical	Unit
Power dissipation	Pd	100	mw
Forward current	If	30	mA
Reverse voltage	Vr	5	V
Operating temperature range	Top	-40 ~+85	°C
Storage temperature range	Tstg	-40~+100	°C
Peak pulsing current	Ifp	100	mA
Electrostatic Discharge	ESD	2000(HBM)	V
Soldering temperature	Tslid	Reflow Soldering:260°C for 10 secs	
		Hand Soldering: 350°C for 3 secs	

\*IFP Conditions: Pulse Width  $\leq$  10msec. and Duty cycle  $\leq$  1/10.

● Electrical-optical characteristics at Ta=25°C

Parameter	Test Condition	Symbol	Min.	Typ.	Max.	Unit
Forward voltage	If=20mA	Vf	2.9	--	3.3	V
Luminous intensity	If=20mA	IV	--	--	--	mcd
CIE Chromaticity	If=20mA	X	--	--	--	--
	If=20mA	Y	--	--	--	--
Viewing angle	If=20mA	2 $\theta$ 1/2	--	120	--	Deg
Reverse current	Vr=5V	IR	--	--	10	$\mu$ A

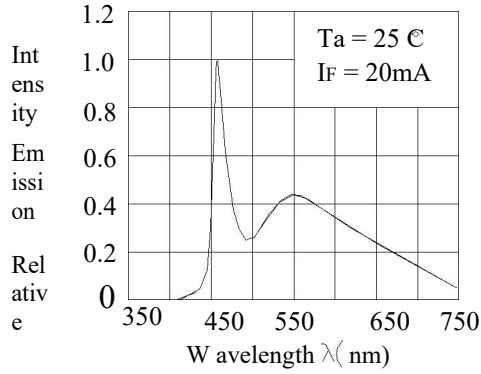
Notes:

- 1、Tolerance of luminous intensity is  $\pm$ 5%.
- 2、Tolerance of forward voltage is  $\pm$ 0.05V.

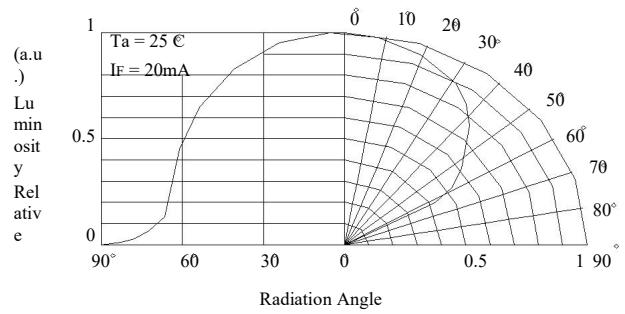


● Typical optical characteristics curves

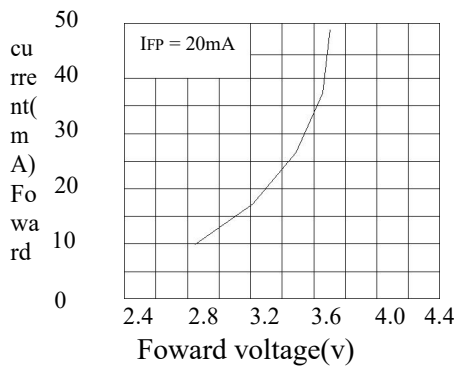
Spectrum



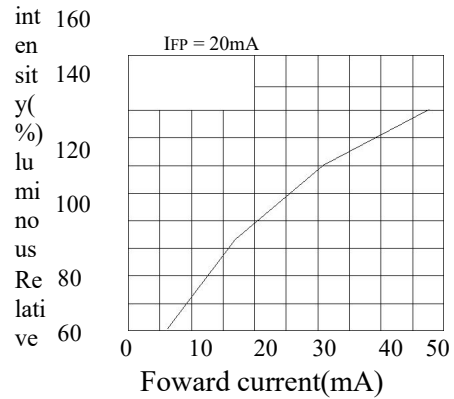
Directivity (Angle : 120°)



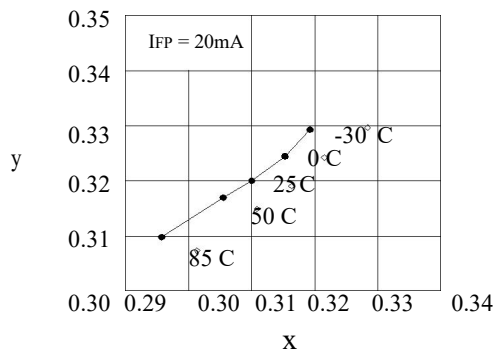
Forward current vs. Forward voltage



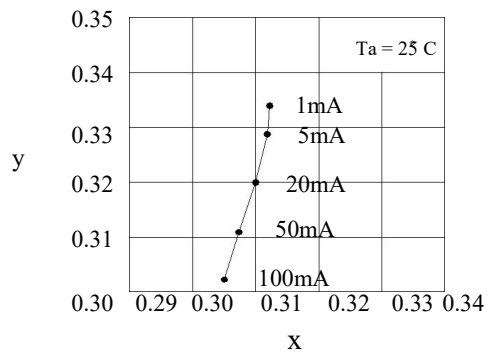
Forward current vs. Relative luminous intensity



Ambient Temperature vs. Chromaticity Coordinate ( $\lambda D$ )

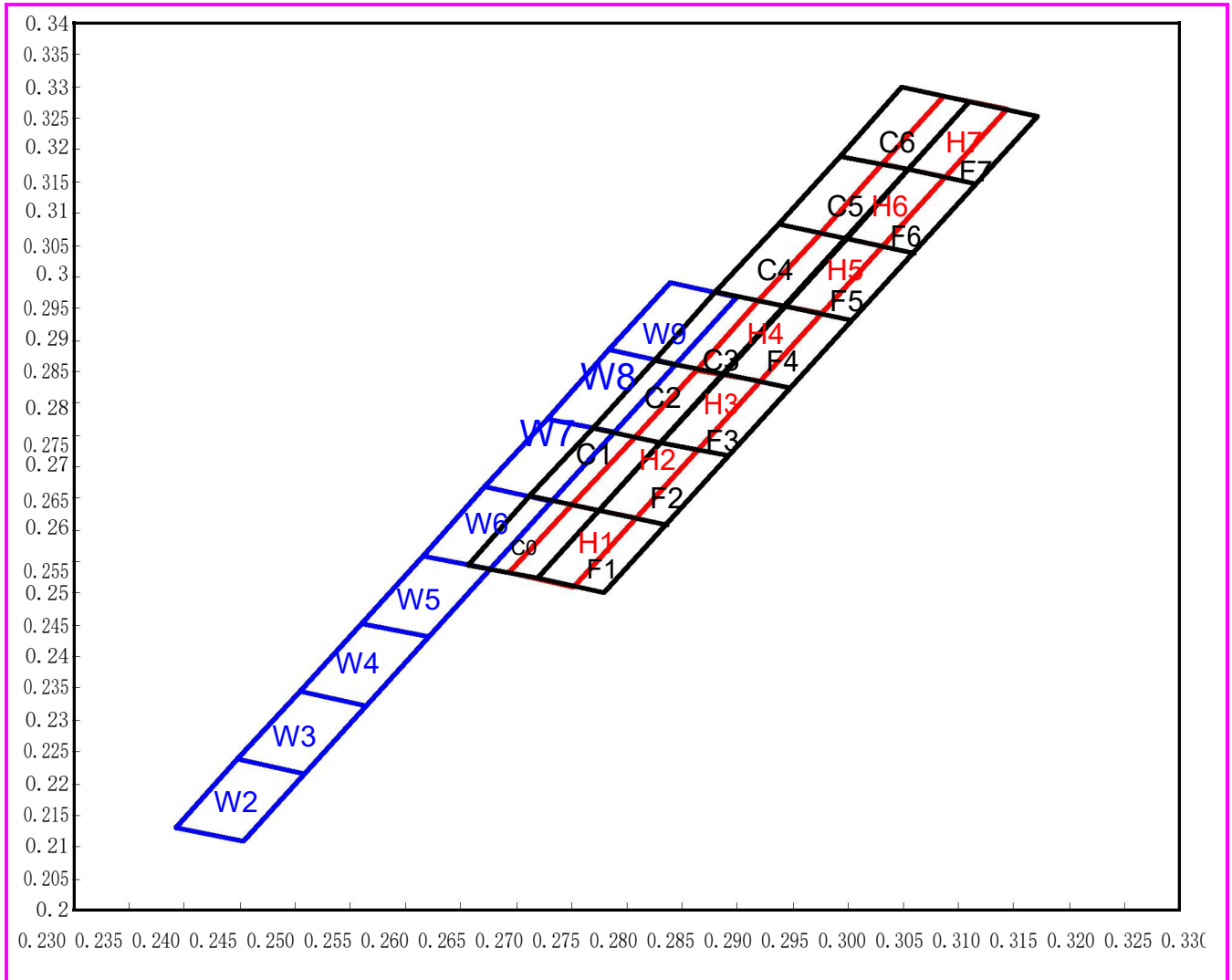


Forward Current vs. Chromaticity Coordinate ( $\lambda D$ )





● CIE Chromaticity Diagrams



● Color Ranks(IF=20mA,Ta=25°C)

BIN Code	X	Y	BIN Code	X	Y	BIN Code	X	Y
W2	0.2453	0.2109	W3	0.2508	0.2216	W4	0.2564	0.2323
	0.2392	0.213		0.2448	0.2238		0.2504	0.2345
	0.2448	0.2238		0.2504	0.2345		0.256	0.2453
	0.2508	0.2216		0.2564	0.2323		0.262	0.2431
W5	0.262	0.2431	W6	0.2676	0.2538	W7	0.2731	0.2644
	0.256	0.2453		0.2616	0.256		0.2672	0.2668
	0.2616	0.256		0.2672	0.2668		0.2728	0.2776
	0.2676	0.2538		0.2731	0.2644		0.2788	0.2754

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