Inolux International Lead Frame Axial Lamp
HTLP912XXX Series

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LIFE SUPPORT POLICY

INOLUX's products are not authorized for use as critical components in life support devices or systems without the express written approval of the President of INOLUX or INOLUX INTERNATIONAL. As used herein:

1. Life support devices or systems are devices or systems which, (a) are intended for surgical implant into the body, or (b) support or sustain life, and (c) whose failure to perform when properly used in accordance with instructions for use provided in the labeling, can be reasonably expected to result in a significant injury of the user.

2. A critical component in any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

Orderable Information

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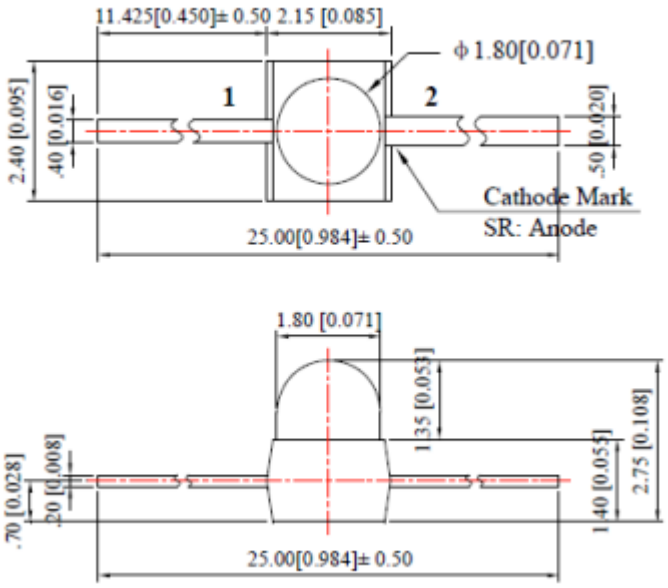
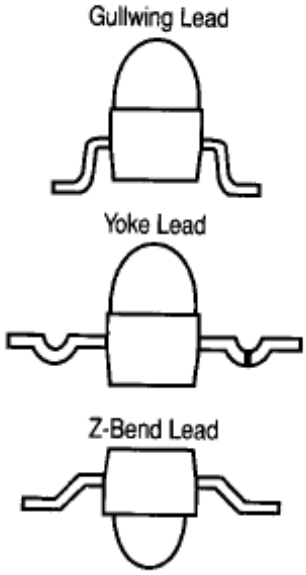
Series Name	Color Code	Lead Band	Customer Code
HTLP912= Inolux 1.8mm Round Axial Lamp	**UR =** 624nm AlInGaP Red **UYG =** 5573nm AlInGaP Yellow Green **UTG =** 525nm InGaN True Green **UY =** 590nm AlInGaP Yellow **USR =** 640nm AlGaAs Super Red **UB =** 470nm InGaN Blue **TW =** InGaN White	**GR =** Gullwing **YR =** Yoke Lead **ZR =** Z-Bend **Blank =** no lead bend	**YYYY =** Customer code

Features:

- Small Double-End Package
- Low Forward Current
- Water clear lens
- Solid state reliability
- Special packaging available upon request





-All Dimensions are in millimeters

-Tolerance = +/- 0.25mm

Absolute Maximum Ratings at Ta=25C

Parameter	Symbol	AlInGaP Material	InGaN Material	Unit
Power Dissipation	P_d	60	95	mW
Reverse Voltage	V_r	5	5	V
Forward Current	I_F	25	25	mA
Reverse Current	I_r	10	10	μA
Peak Current (1/10 Duty Cycle, 0.1ms pulse width)	I_F (Peak)	100	100	mA
Operating Temperature Range	T_{opr}	-40 to +80		° C
Storage Temperature Range	T_{stg}	-40 to +85		° C
Lead Soldering Temp	T_{sol}	260		° C

Electrical and Optical Characteristic (@ 25 degree C)

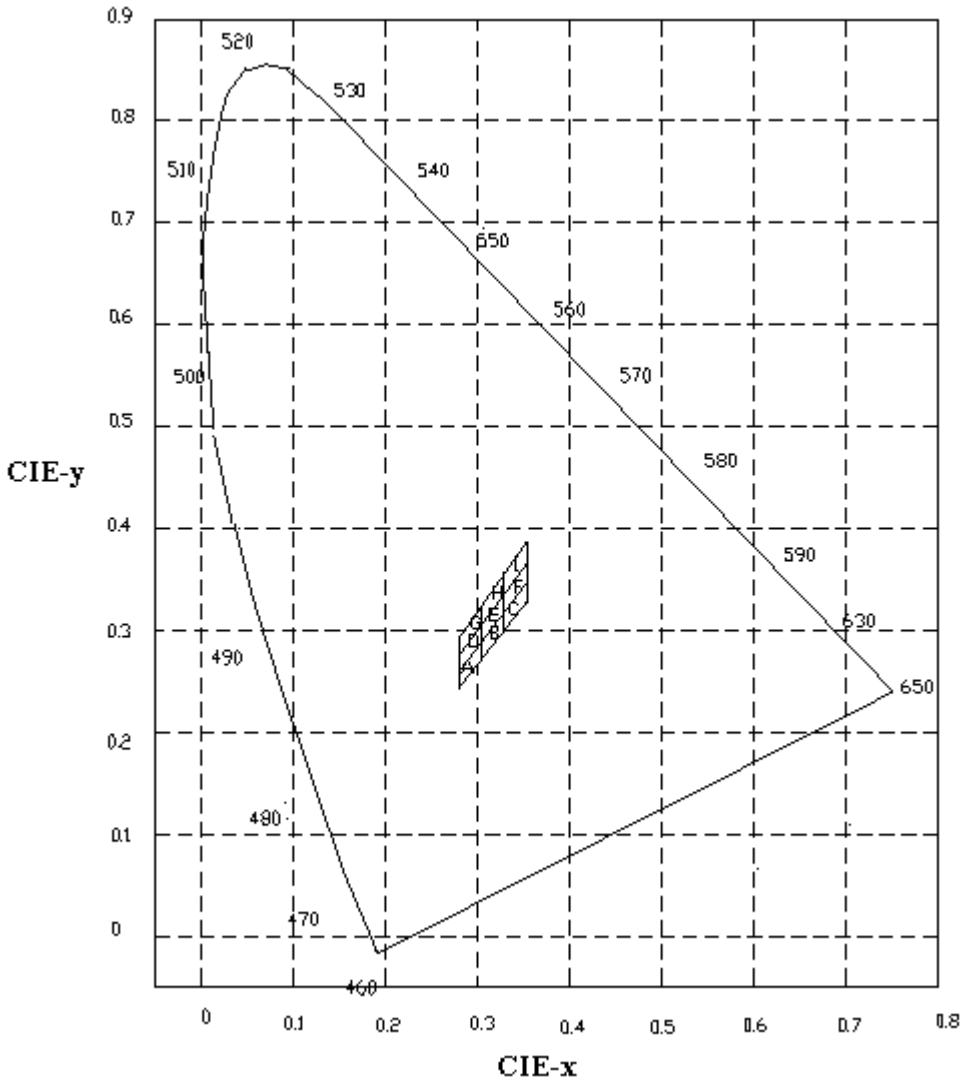
Parameter	UR	UYG	UTG	UY	Test Condition
Luminous Intensity:					
Min (mcd)	1000	1000	1500	1000	If=20mA
Typ (mcd)	1500	2000	3000	2000	If=20mA
Forward voltage (Vf)					
Typ	2.2	3.3	3.3	2.2	If=20mA
Max	2.6	3.8	3.8	2.6	If=20mA
Dominant Wavelength (nm)	624	505	525	590	If=20mA
Viewing angle	25	25	25	25	If=20mA

- Brightness tolerance = +/- 10%

Parameter	USR	UB	TW	Test Condition
Luminous Intensity:				
Min (mcd)	250	400	1500	If=20mA
Typ (mcd)	550	1000	3000	If=20mA
Forward voltage (Vf)				
Typ	2.2	3.3	3.3	If=20mA
Max	2.6	3.8	3.8	If=20mA
Dominant Wavelength (nm)	605	470	X=0.30 Y=0.31	If=20mA
Viewing angle	25	25	30	If=20mA

- Brightness tolerance = +/- 10%

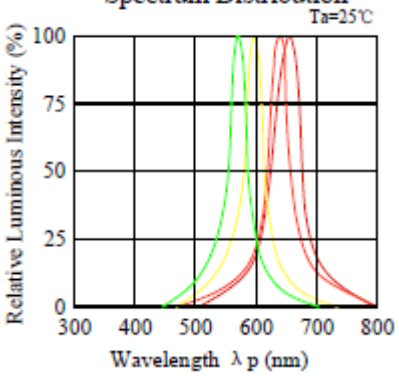
Chromaticity Diagram



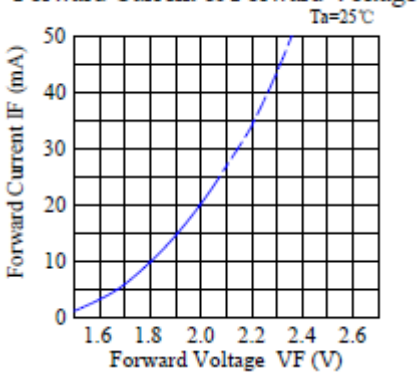
Group	Chromaticity Coordinate Group				
A	X	0.27	0.27	0.297	0.297
	Y	0.24	0.257	0.287	0.27
B	X	0.297	0.297	0.323	0.323
	Y	0.27	0.287	0.317	0.3
C	X	0.323	0.323	0.35	0.35
	Y	0.3	0.317	0.347	0.33
D	X	0.27	0.27	0.297	0.297
	Y	0.257	0.273	0.303	0.287
E	X	0.297	0.297	0.323	0.323
	Y	0.287	0.303	0.333	0.317
F	X	0.323	0.323	0.35	0.35
	Y	0.317	0.333	0.363	0.347
G	X	0.27	0.27	0.297	0.297
	Y	0.273	0.29	0.32	0.303
H	X	0.297	0.297	0.323	0.323
	Y	0.303	0.32	0.35	0.333
I	X	0.323	0.323	0.35	0.35
	Y	0.333	0.35	0.38	0.363

Characteristic Curves for UR, USR, UYG and UY

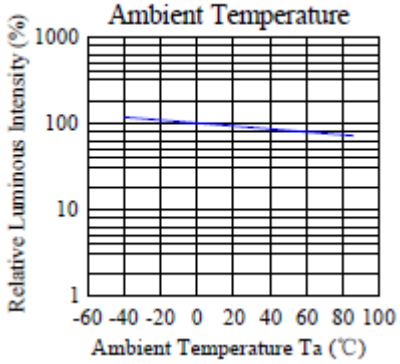
Spectrum Distribution



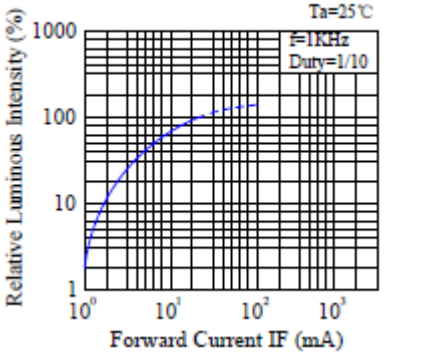
Forward Current & Forward Voltage



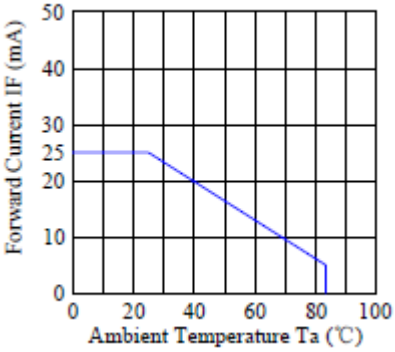
Luminous Intensity & Ambient Temperature



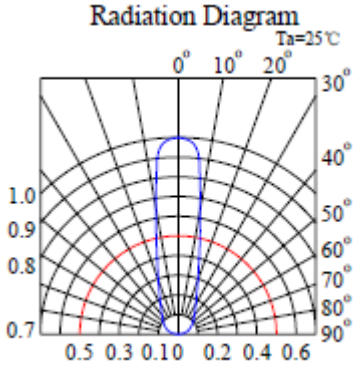
Luminous Intensity & Forward Current



Forward Current Derating Curve

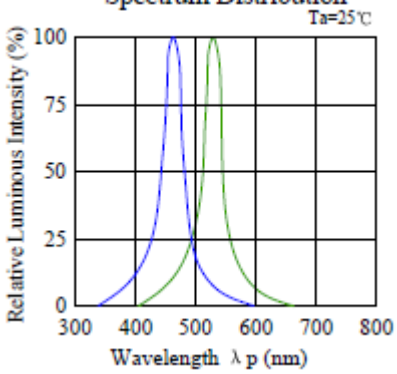


Radiation Diagram

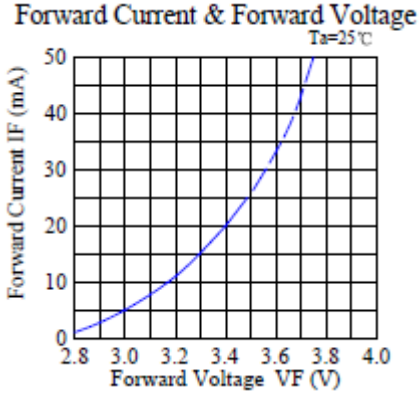


Characteristic Curves for UB and UTG

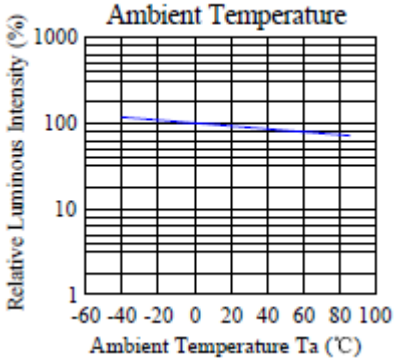
Spectrum Distribution



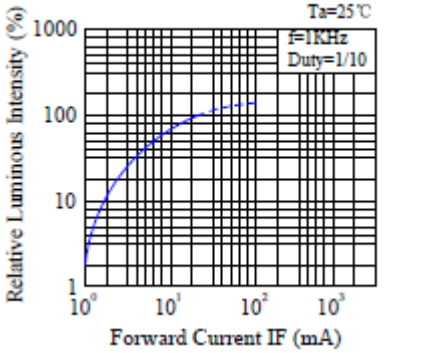
Forward Current & Forward Voltage



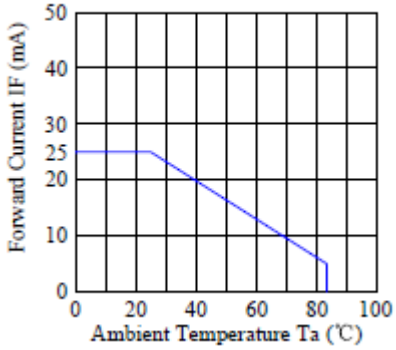
Luminous Intensity & Ambient Temperature



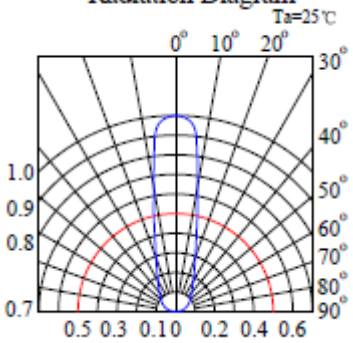
Luminous Intensity & Forward Current



Forward Current Derating Curve

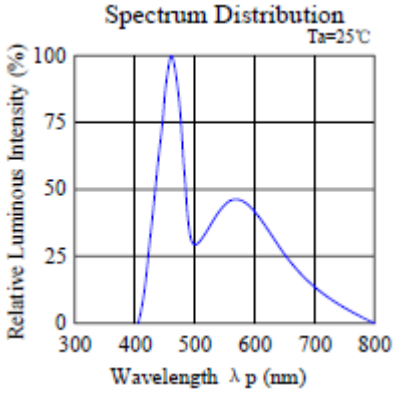


Radiation Diagram

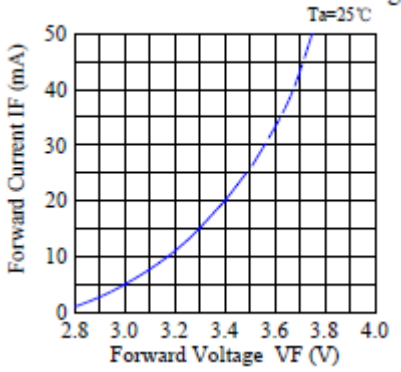


Characteristic Curves for White

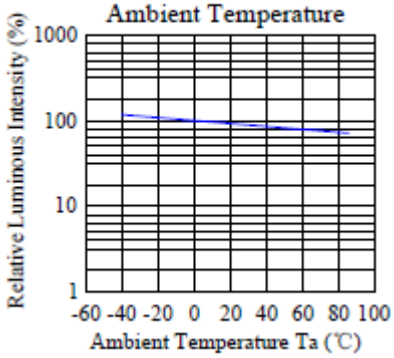
Spectrum Distribution



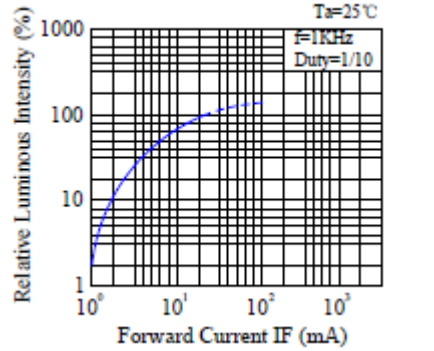
Forward Current & Forward Voltage



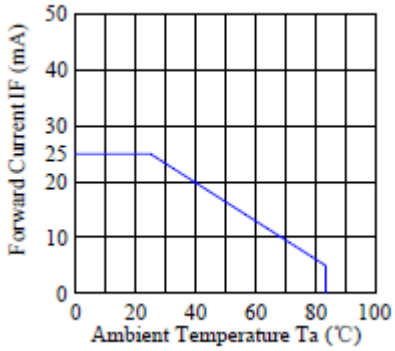
Luminous Intensity & Ambient Temperature



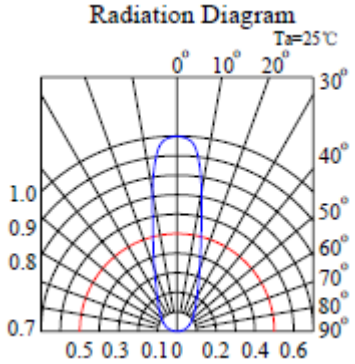
Luminous Intensity & Forward Current



Forward Current Derating Curve



Radiation Diagram



Revision History

Changes since last revision	Page	Version No.	Revision Date
Initial release		1.0	06-27-2013