Inolux 5mm Oval Lamp
HTOV511040XX Series

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LIFE SUPPORT POLICY

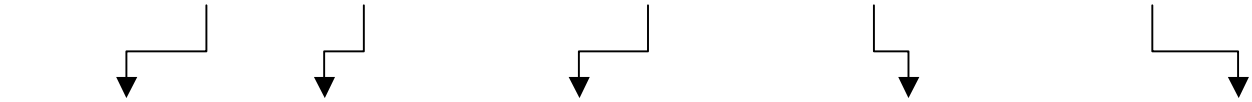
INOLUX's products are not authorized for use as critical components in life support devices or systems without the express written approval of the President of INOLUX or INOLUX INTERNATIONAL. As used herein:

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

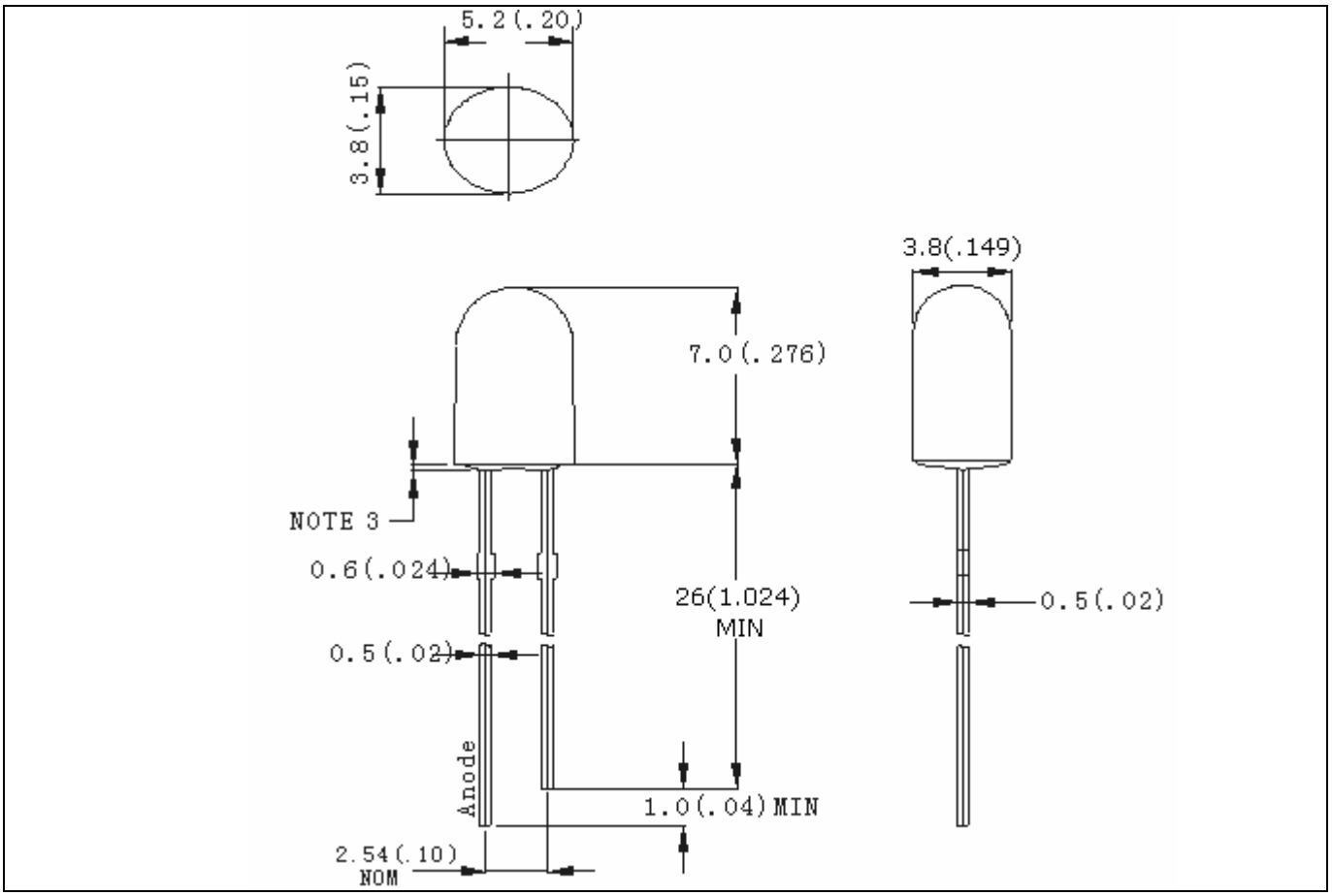
H T O V 5 1 1 0 4 0 X X - Y Y Y Y



Series Name	Lamp Type	Viewing Angle	Color Code	Customer Code
HTOV= Inolux Oval Lamp	**5=** 5mm	**11040=** 110°/40°	**UR =** 624nm AlInGaP Red **UTG =** 525nm InGaN True Green **UY =** 590nm AlInGaP Yellow **UB =** 470nm InGaN Blue	**YYYY =** Customer code

Features:

- Stable Color
- Popular 5mm 110/40 Oval Lamp
- Color Diffused Lens
- InGaN and AlInGaP technology
- 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	Pd	62	100	mW
Reverse Voltage	Vr	5	5	V
Forward Current	IF	25	25	mA
Reverse Current	Ir	10	10	µA
Peak Current (1/10 Duty Cycle, 0.1ms pulse width)	IF (Peak)	100	100	mA
Operating Temperature Range	Topr	-40 to +85		° C
Storage Temperature Range	Tstg	-40 to +100		° C
Lead Soldering Temp	Tsol	260		° C

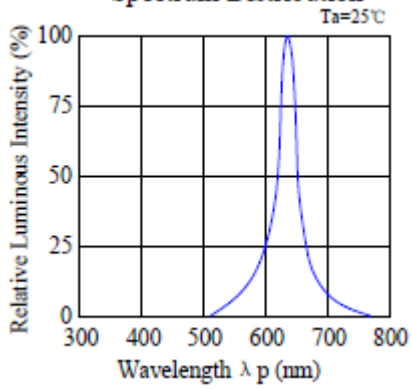
Electrical and Optical Characteristic (@ 25 degree C)

Parameter	UR	UTG	UY	UB	Test Condition
Luminous Intensity:					
Min (mcd)	620	890	620	300	If=20mA
Typ (mcd)	700	1800	850	520	If=20mA
Forward voltage (Vf)					
Typ	2.2	3.2	2.2	3.2	If=20mA
Max	2.6	4.0	2.6	4.0	If=20mA
Dominant Wavelength (nm)	624	525	590	468	If=20mA
Viewing angle	110/40	110/40	110/40	110/40	If=20mA

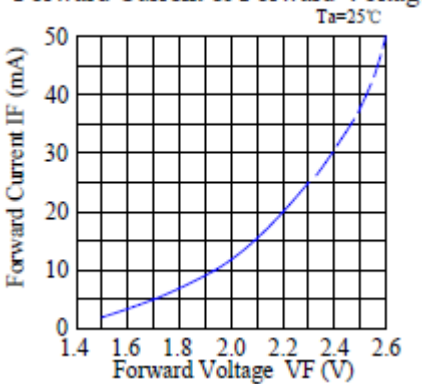
- Brightness tolerance = +/- 10%

Characteristic Curves for Red (R)

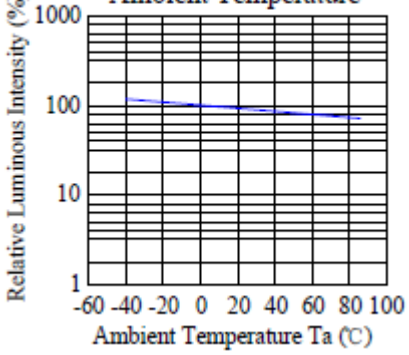
Spectrum Distribution



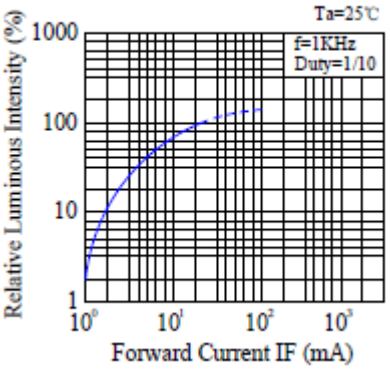
Forward Current & Forward Voltage



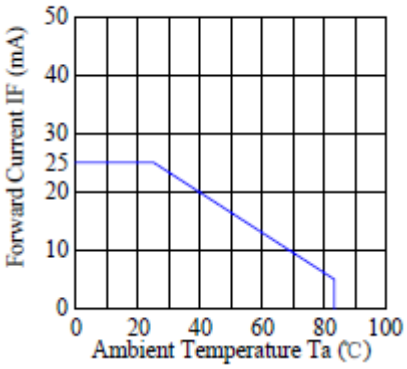
Luminous Intensity & Ambient Temperature



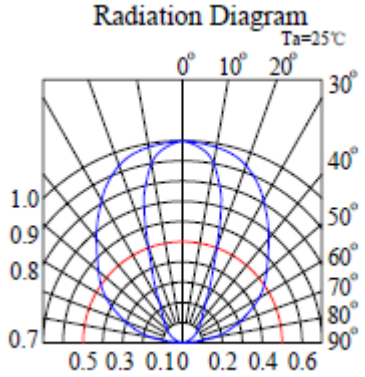
Luminous Intensity & Forward Current



Forward Current Derating Curve

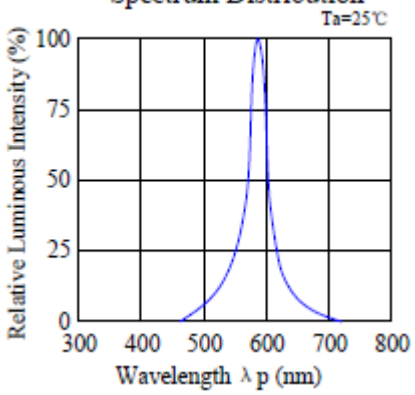


Radiation Diagram

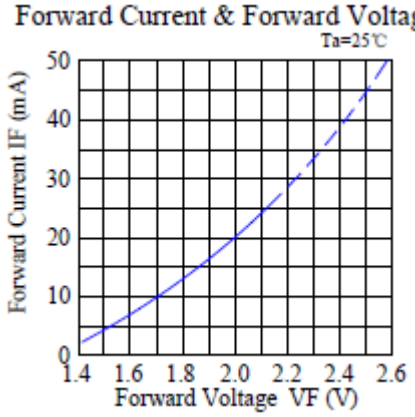


Characteristic Curves for Yellow (Y)

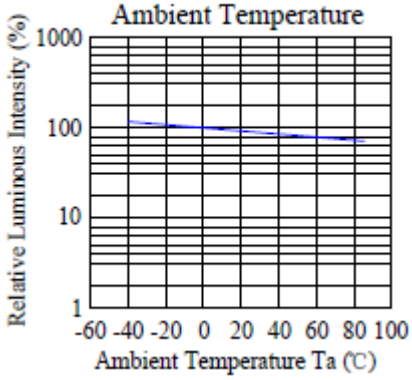
Spectrum Distribution



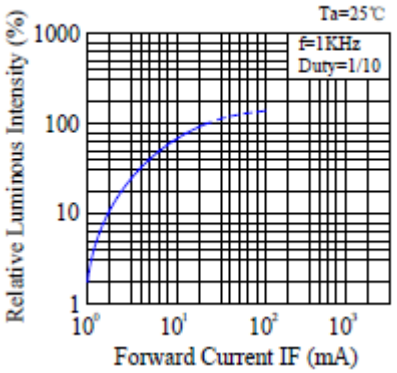
Forward Current & Forward Voltage



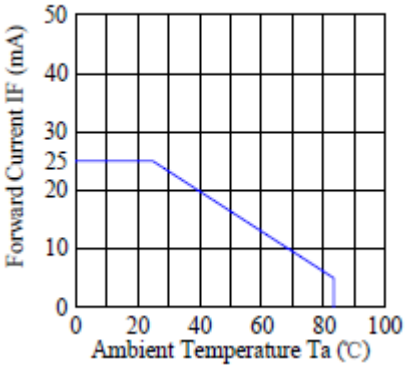
Luminous Intensity & Ambient Temperature



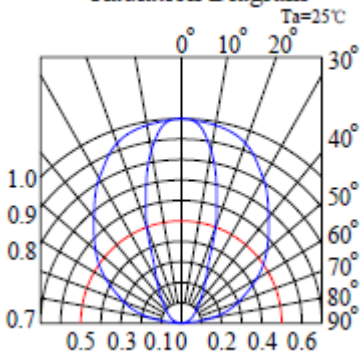
Luminous Intensity & Forward Current



Forward Current Derating Curve

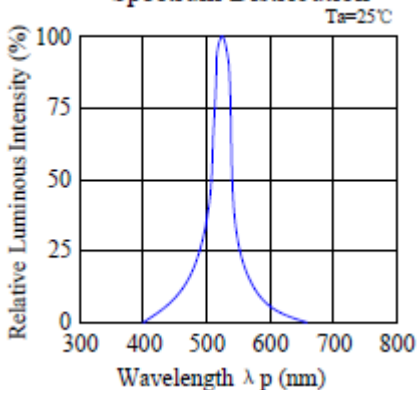


Radiation Diagram

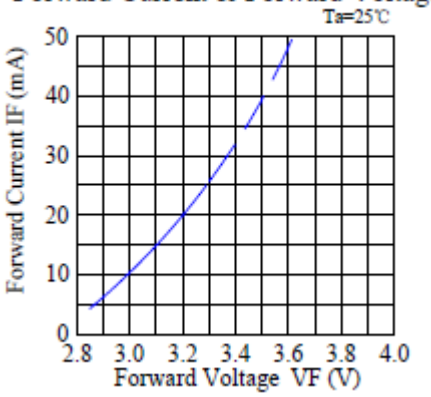


Characteristic Curves for Green (TG)

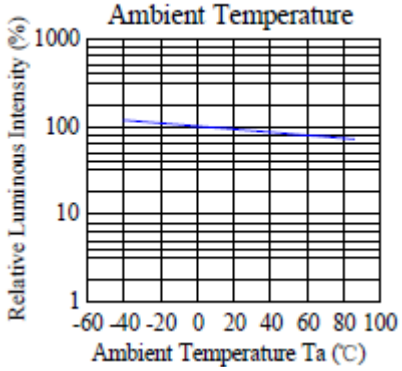
Spectrum Distribution



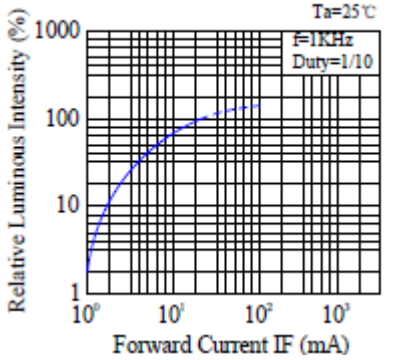
Forward Current & Forward Voltage



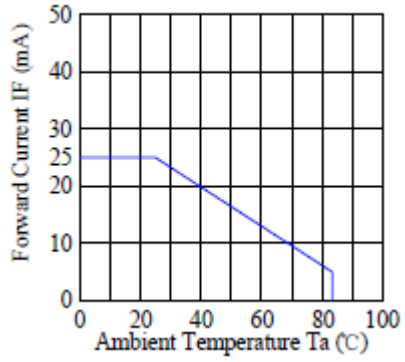
Luminous Intensity & Ambient Temperature



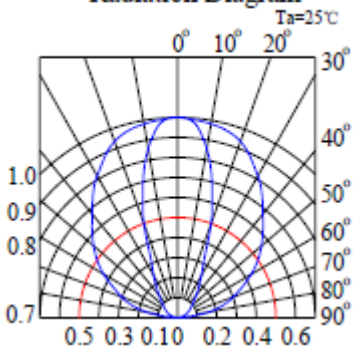
Luminous Intensity & Forward Current



Forward Current Derating Curve

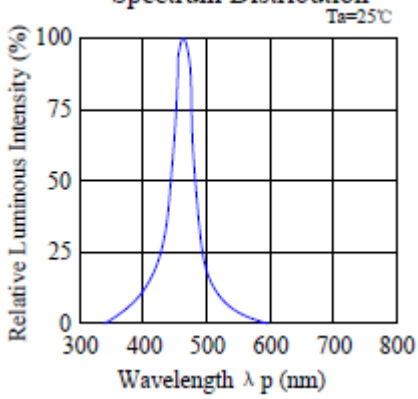


Radiation Diagram

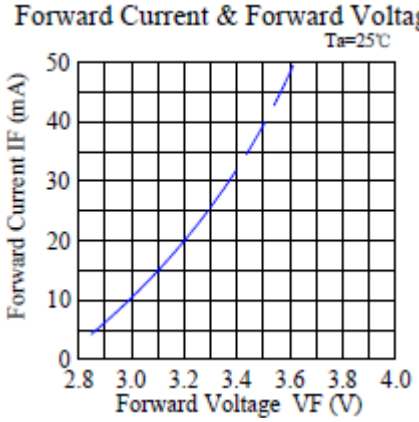


Characteristic Curves for Blue (B)

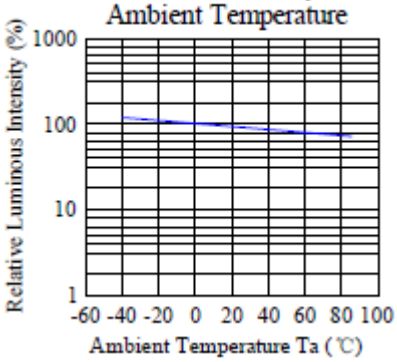
Spectrum Distribution



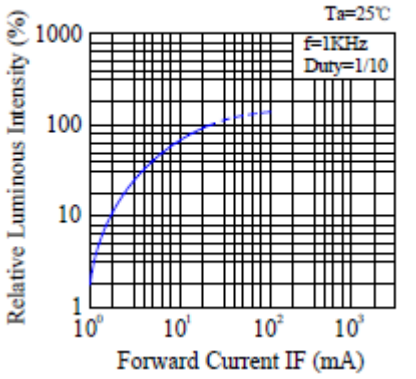
Forward Current & Forward Voltage



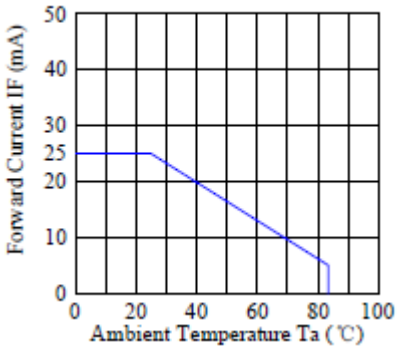
Luminous Intensity & Ambient Temperature



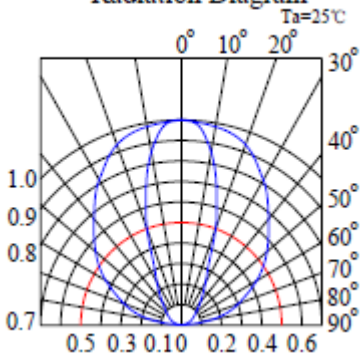
Luminous Intensity & Forward Current



Forward Current Derating Curve



Radiation Diagram



Revision History

Changes since last revision	Page	Version No.	Revision Date
Initial release for 5mm Oval Lamp		1.0	06-27-2013