

**Inolux 3mm Round Lamp with Single Level Housing
HHS3XX60X Series**

Official Product	HHS3XX60X Series	Customer Part No.		Data Sheet No.
	*****	*****		HHS3XX60X Series
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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.

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Orderable Information

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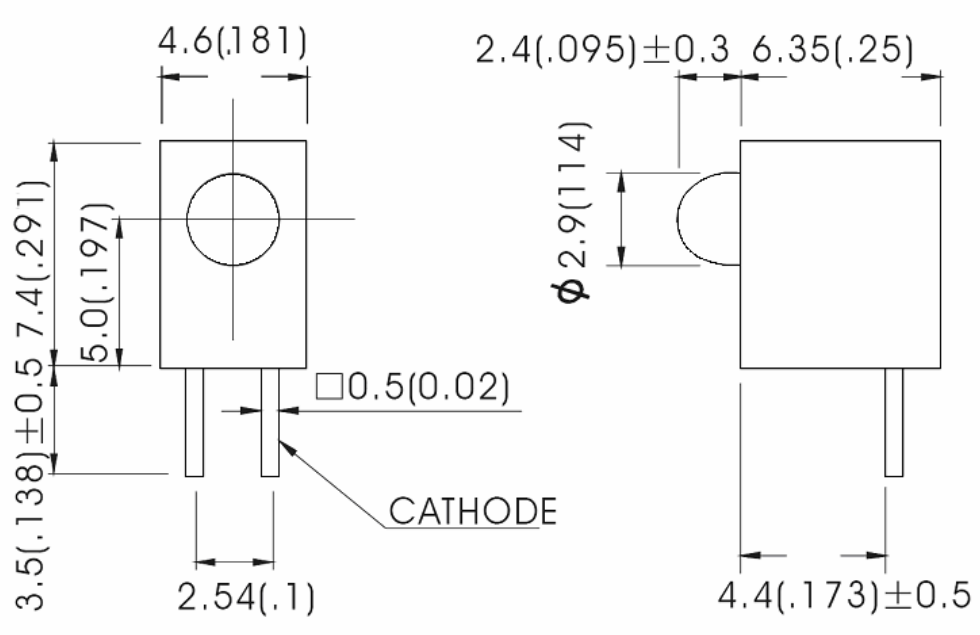
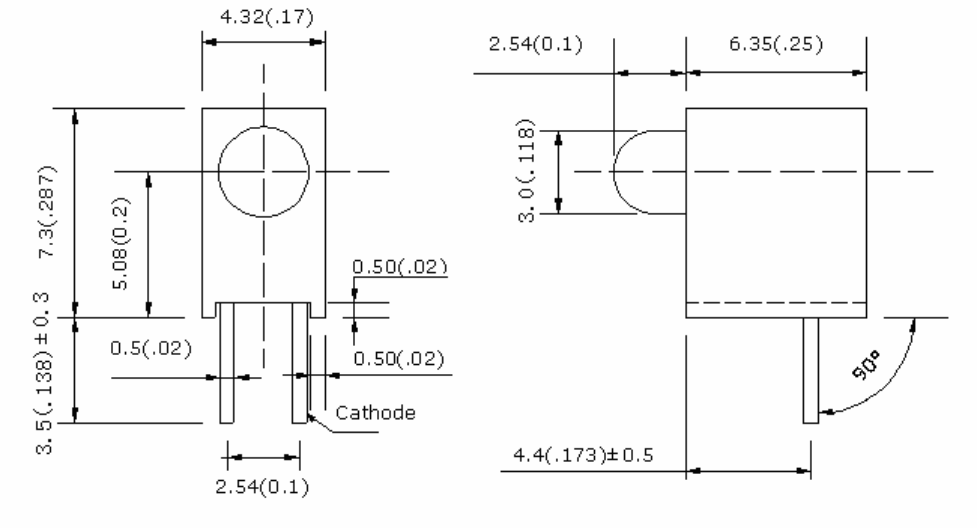
Series Name	Color Code	VA	Housing Type	Customer Code
HHS= Inolux Through Hole with Single Level Housing	3YG = 565nm GaP Yellow Green 3Y = 590nm GaP Yellow 3A = 605nm GaAsP Amber 3DR = 640nm AlGaAs Deep Red	60 = 60°	A = Type A Housing B = Type B Housing *See Page 5 for Detail Drawing	YYYY = Customer code

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Features:

- Low Power Consumption
- 3mm Lamp
- Color Diffused lens
- Special packaging available upon request
- Easy to assembly

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Type A Housing	 Technical drawing of Type A Housing showing front and side views with dimensions in millimeters (mm) and inches (in). Front View Dimensions: - Top width: 4.6(.181) - Top height: 5.0(.197) - Bottom height: 3.5(.138) ± 0.5 - Bottom width: 2.54(.1) - Internal width: 0.5(0.02) - Label: CATHODE Side View Dimensions: - Top width: 2.4(.095) ± 0.3 - Top height: 6.35(.25) - Bottom height: 4.4(.173) ± 0.5 - Internal width: 0.5(0.02) - Label: CATHODE
Type B Housing	 Technical drawing of Type B Housing showing front and side views with dimensions in millimeters (mm) and inches (in). Front View Dimensions: - Top width: 4.32(.17) - Top height: 5.08(0.2) - Bottom height: 3.5(.138) ± 0.3 - Bottom width: 2.54(0.1) - Internal width: 0.5(0.02) - Label: Cathode Side View Dimensions: - Top width: 2.54(0.1) - Top height: 6.35(.25) - Bottom height: 4.4(.173) ± 0.5 - Internal width: 0.5(0.02) - Label: Cathode

-All Dimensions are in millimeters

-Tolerance = +/- 0.25mm

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Absolute Maximum Ratings at Ta=25C

Parameter	Symbol	GaP/GaAsP Material	AlGaAs Material	Unit
Power Dissipation	P _d	78	60	mW
Reverse Voltage	V _r	5	5	V
Forward Current	I _F	30	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

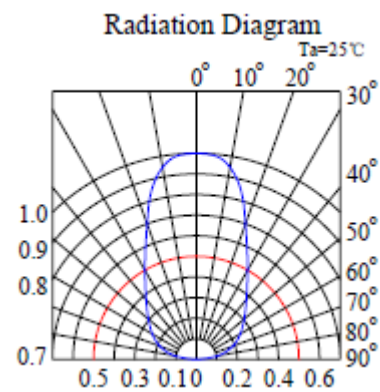
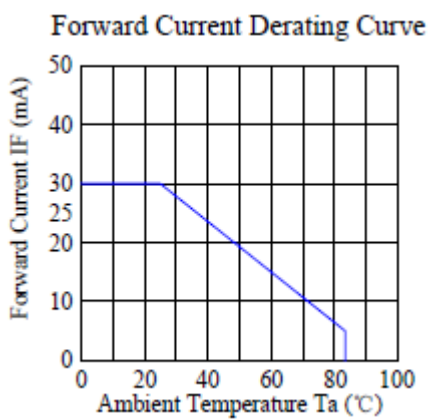
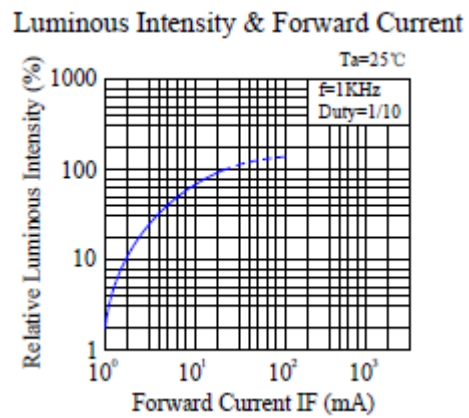
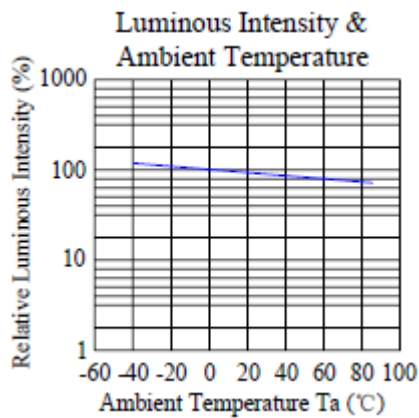
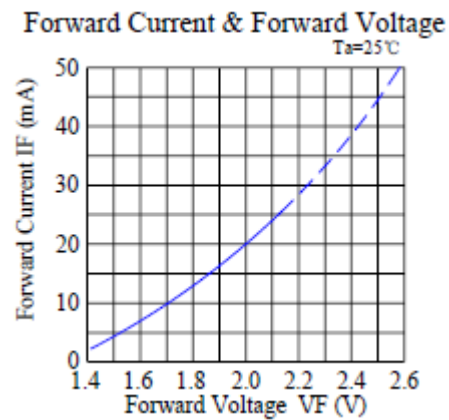
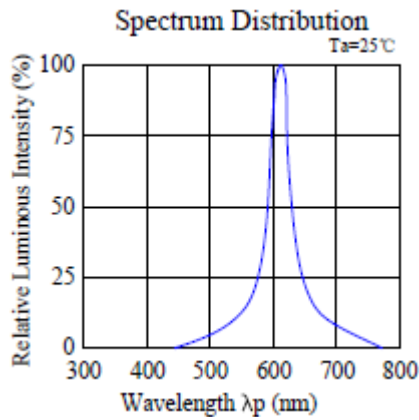
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Electrical and Optical Characteristic (@ 25 degree C)

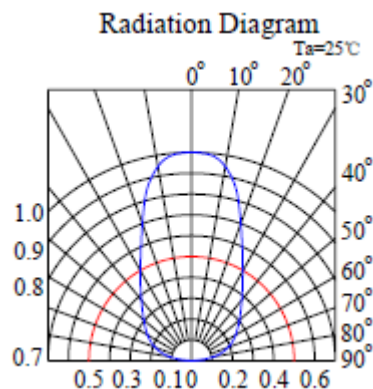
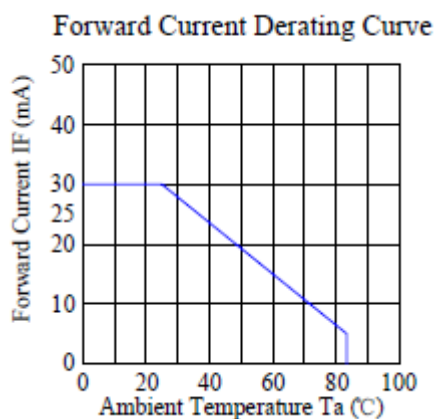
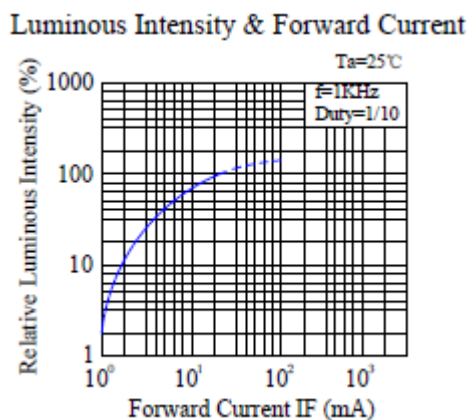
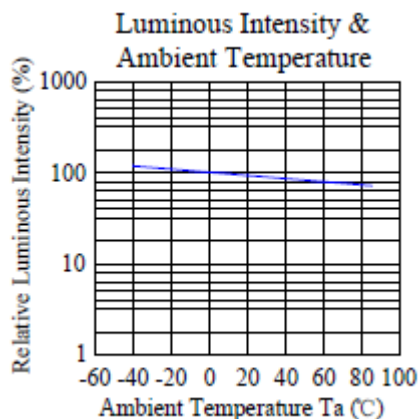
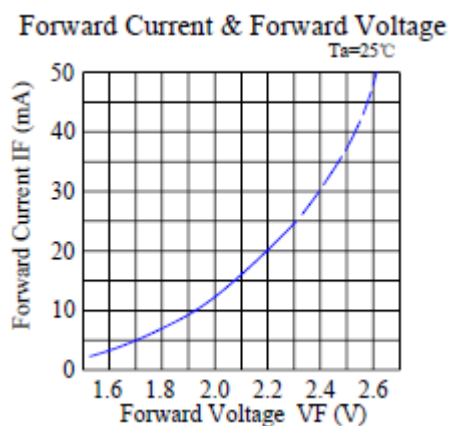
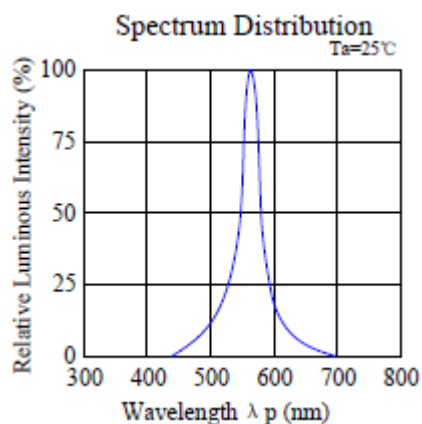
Parameter	Amber	Yellow Green	Yellow	Deep Red	Test Condition
Luminous Intensity:					
Min (mcd)	30	20	20	200	If=20mA
Typ (mcd)	50	40	40	300	If=20mA
Forward voltage (Vf)					
Typ	2.0	2.2	2.2	1.8	If=20mA
Max	2.6	2.6	2.6	2.4	If=20mA
Dominant Wavelength (nm)	605	570	590	640	If=20mA
Viewing angle	60	60	60	60	If=20mA

- Brightness tolerance = +/- 10%

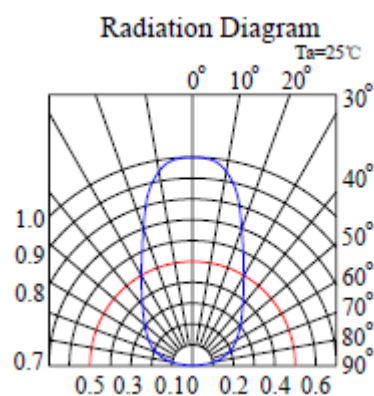
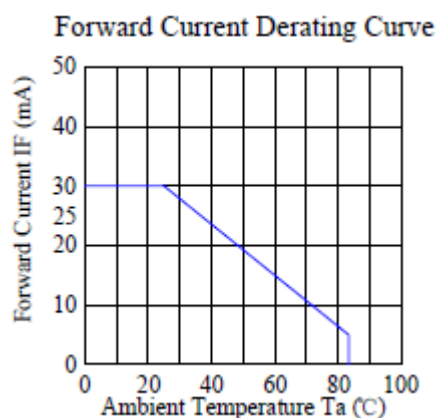
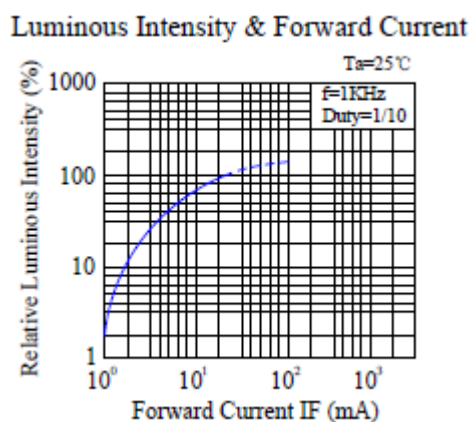
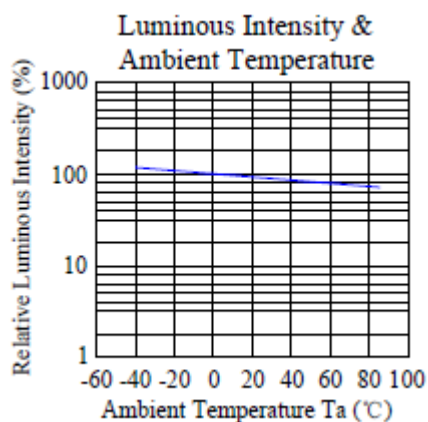
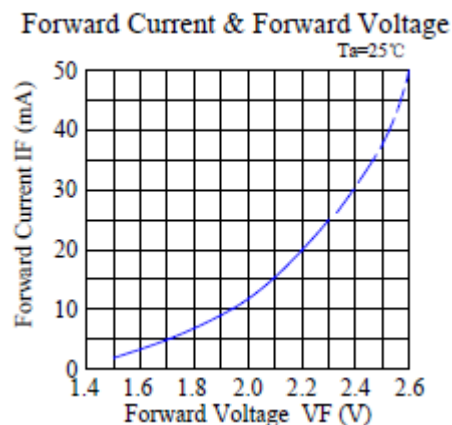
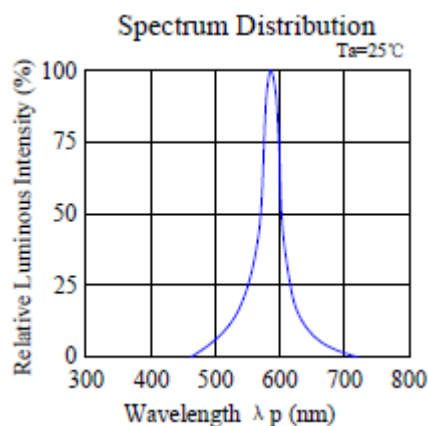
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Characteristic Curves for Amber (A)


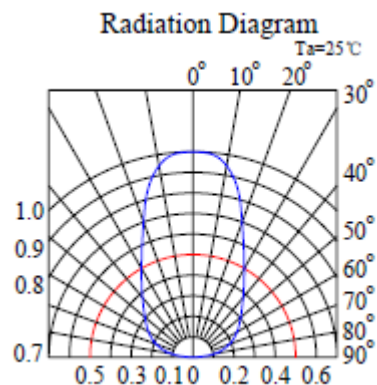
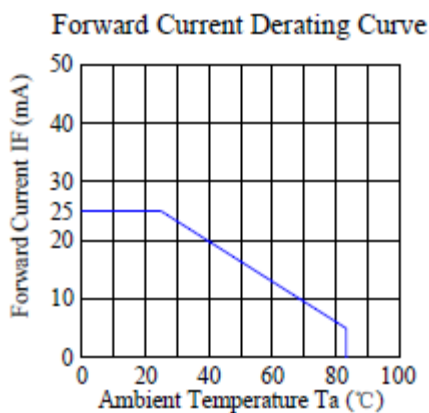
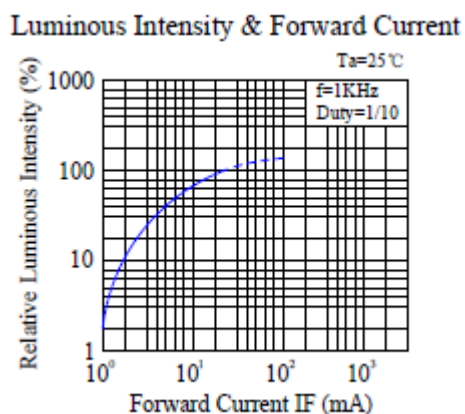
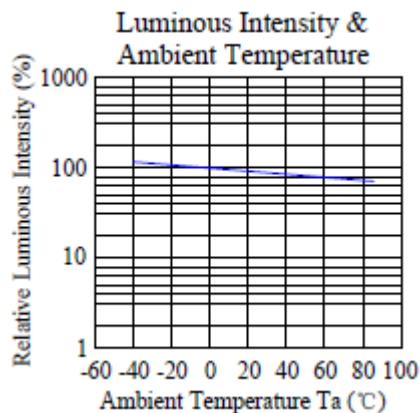
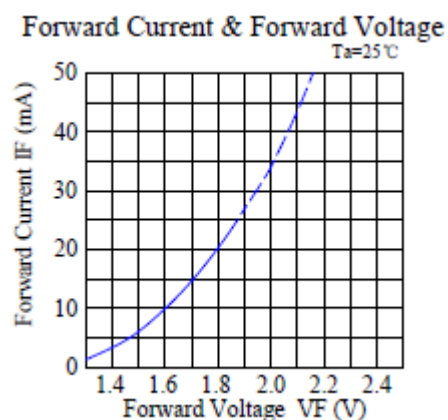
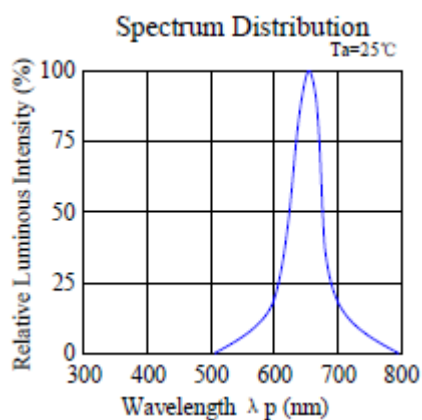
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Characteristic Curves for Yellow Green (YG)


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Characteristic Curves for Yellow (Y)


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Characteristic Curves for Deep Red (DR)


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Revision History

Changes since last revision	Page	Version No.	Revision Date
Initial release for 3mm Single Level Housing		1.0	06-28-2013

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