Inolux 5mm Full-Color Through Hole Lamp
HV-5RGBXX Series

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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:

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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

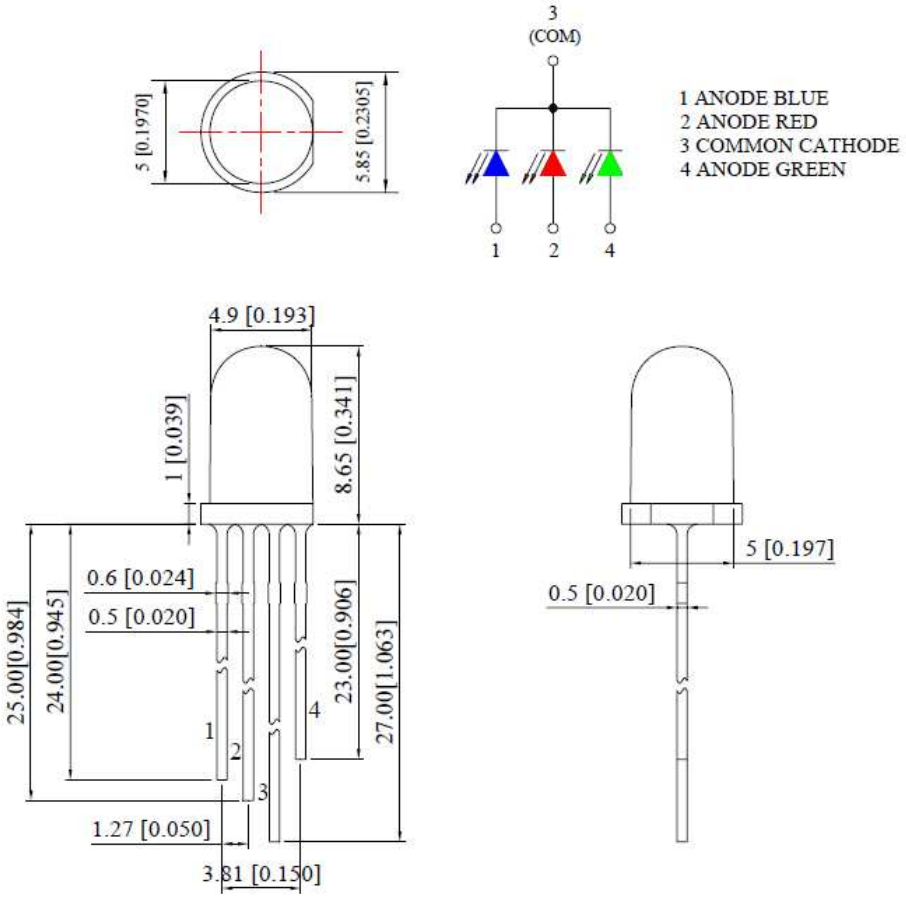
H V - 5 R G B X X - Y Y Y Y

Series Name	Color Code	Viewing Angle	Customer Code
HV= Inolux Through Hole Lamp	**RGB=** 632nm AlInGaP Red 520nm InGaN Green 470nm InGaN Blue	**25=** 25° **60=** 60°	**YYYY =** Customer code

Features:

- Full-Color
- Popular 5mm through hole package
- White Clear Lens
- AllnGaP/InGaN technology
- Solid state reliability
- Special packaging available upon request

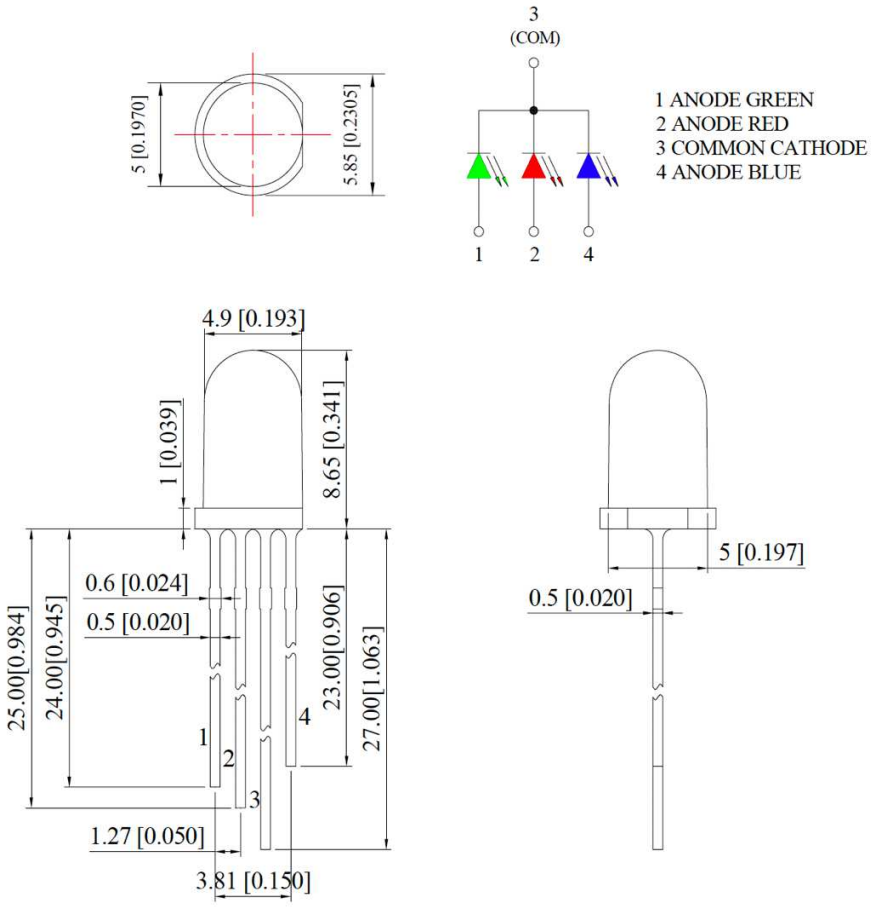
Dimensions for HV-5RGB25



-All Dimensions are in millimeters

-Tolerance = +/- 0.25mm

Dimensions for HV-5RGB60



-All Dimensions are in millimeters

-Tolerance = +/- 0.25mm

Absolute Maximum Ratings at Ta=25C

Parameter	Symbol	AlInGaP	InGaN	Unit
Power Dissipation	Pd	65	95	mW
Reverse Voltage	Vr	5		V
Forward Current	IF	25		mA
Reverse Current	Ir	10		μA
Peak Current (1/10 Duty Cycle, 0.1ms pulse width)	IF (Peak)	100		mA
Operating Temperature Range	Topr	-40 to +80		° C
Storage Temperature Range	Tstg	-40 to +100		° C
Lead Soldering Temp	Tsol	260		° C

Electrical and Optical Characteristic (@ 25 degree C)

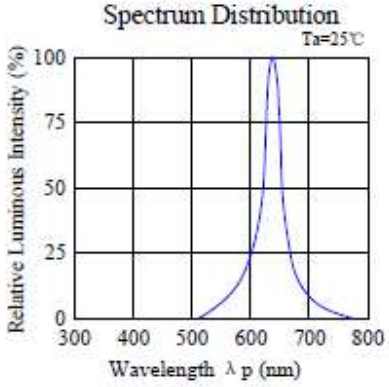
Parameter	R	G	B	Test Condition
Luminous Intensity:				
Min (mcd)	1600	2000	1000	If=20mA
Typ (mcd)	3200	4000	2000	If=20mA
Forward voltage (Vf)				
Typ	2.0	3.4	3.4	If=20mA
Max	2.6	3.8	3.8	If=20mA
Dominant Wavelength (nm)	624	525	470	If=20mA
Viewing Angle (Deg)	25	25	25	If=20mA

Parameter	R	G	B	Test Condition
Luminous Intensity:				
Min (mcd)	350	450	250	If=20mA
Typ (mcd)	600	1000	500	If=20mA
Forward voltage (Vf)				
Typ	2.0	3.4	3.4	If=20mA
Max	2.6	3.8	3.8	If=20mA
Dominant Wavelength (nm)	624	525	470	If=20mA
Viewing Angle (Deg)	60	60	60	If=20mA

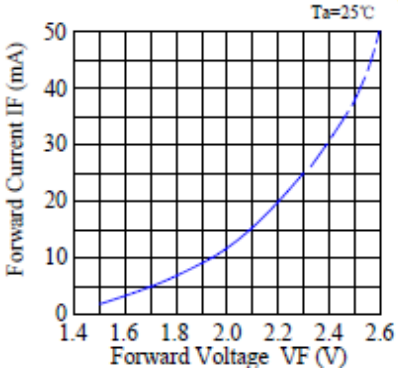
- Brightness tolerance = +/- 10%

Characteristic Curves for Red (R)

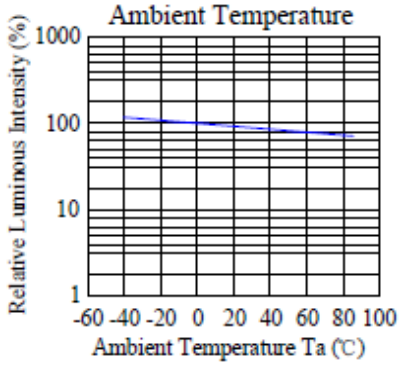
Spectrum Distribution



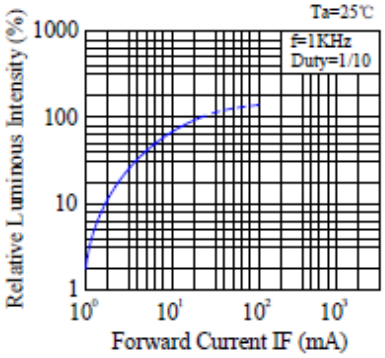
Forward Current & Forward Voltage



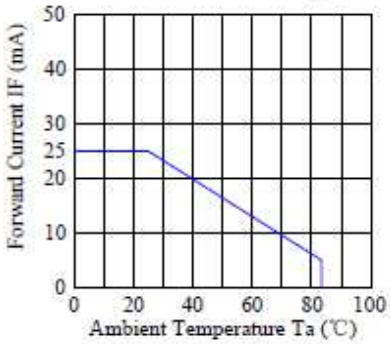
Luminous Intensity & Ambient Temperature



Luminous Intensity & Forward Current

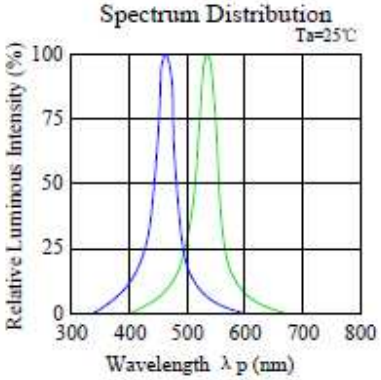


Forward Current Derating Curve

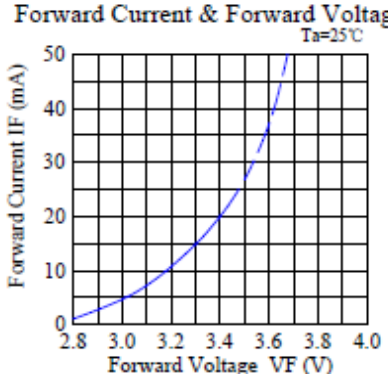


Characteristic Curves for Green (G) and Blue (B)

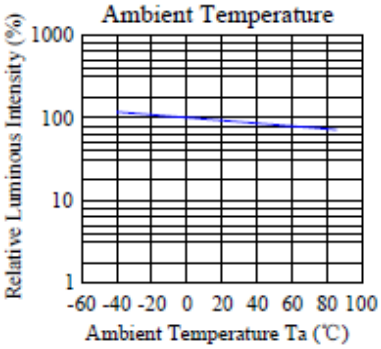
Spectrum Distribution



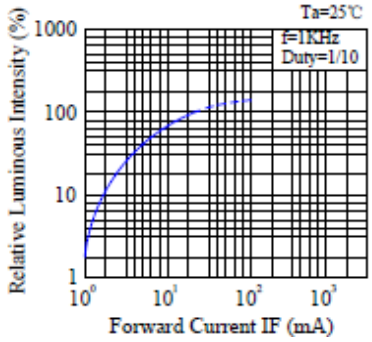
Forward Current & Forward Voltage



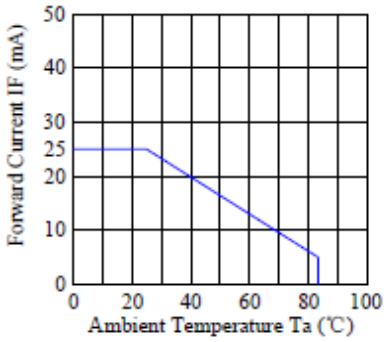
Luminous Intensity & Ambient Temperature



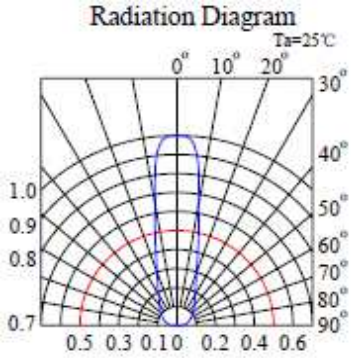
Luminous Intensity & Forward Current

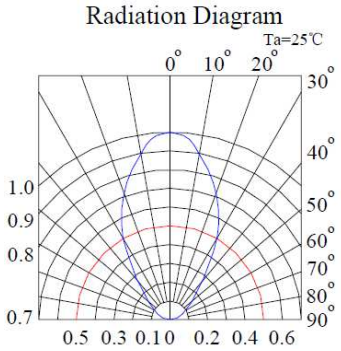


Forward Current Derating Curve



Radiation Diagram





Revision History

Changes since last revision	Page	Version No.	Revision Date
Initial release for 5mm Full-Color Lamp		1.0	06-27-2013
Update HV-5RGB60 Dimension		1.1	07-21-2015
Update the Lens Spec.		1.2	05-14-2019

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