

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

Official Product	HV-5RGBXX series	Customer Part No.		Data Sheet No.
	*****	*****		HV-5RGBXX series
Specifications are subject to change without notice. Data and drawings herein are copyrighted.		May 14, 2019	Version of 1.2	Page 1/11

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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.

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Orderable Information

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



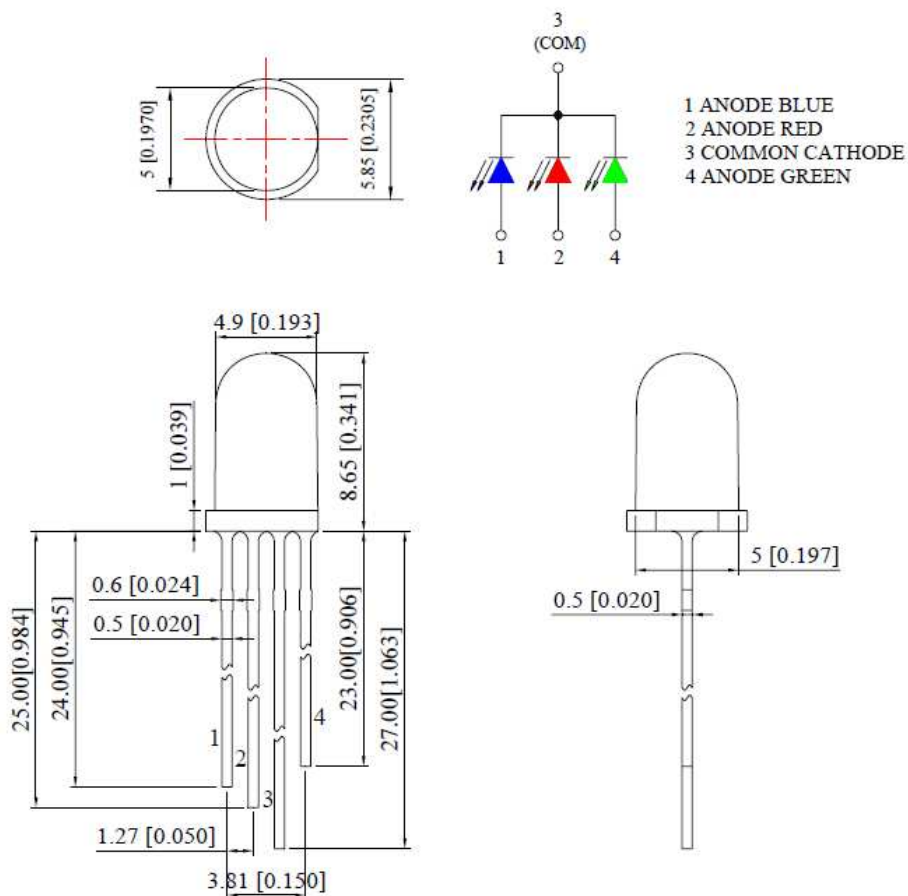
Series Name	Color Code	Viewing Angle	Customer Code
HV= Inolux Through Hole Lamp	RGB= 632nm AlInGaP Red 520nm InGaN Green 470nm InGaN Blue	25= 25° 60= 60°	YYYY = Customer code

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Features:

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

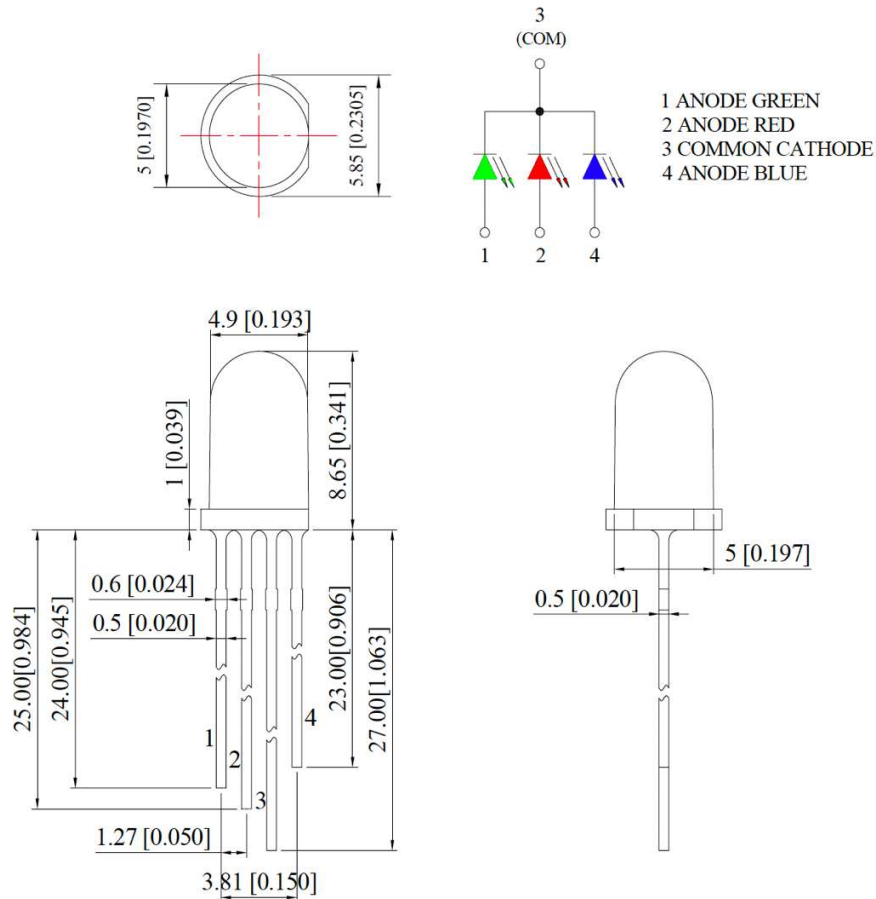
Dimensions for HV-5RGB25



-All Dimensions are in millimeters

-Tolerance = +/- 0.25mm

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Dimensions for HV-5RGB60


-All Dimensions are in millimeters

-Tolerance = +/- 0.25mm

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Absolute Maximum Ratings at Ta=25C

Parameter	Symbol	AllnGaP	InGaN	Unit
Power Dissipation	P _d	65	95	mW
Reverse Voltage	V _r	5		V
Forward Current	I _F	25		mA
Reverse Current	I _r	10		μA
Peak Current (1/10 Duty Cycle, 0.1ms pulse width)	I _F (Peak)	100		mA
Operating Temperature Range	T _{opr}	-40 to +80		° C
Storage Temperature Range	T _{stg}	-40 to +100		° C
Lead Soldering Temp	T _{sol}	260		° C

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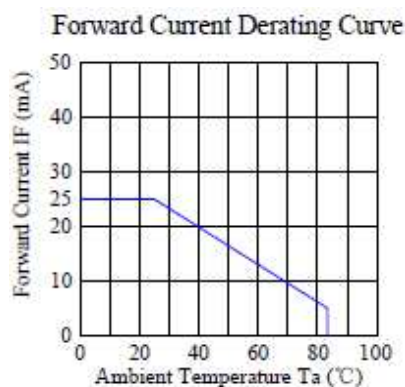
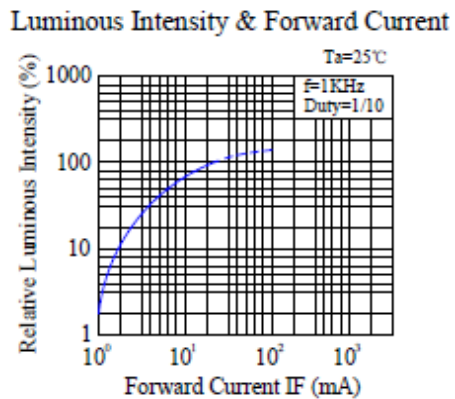
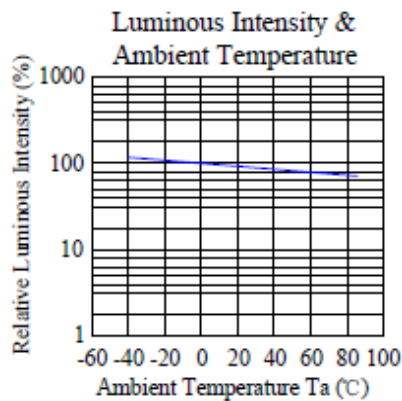
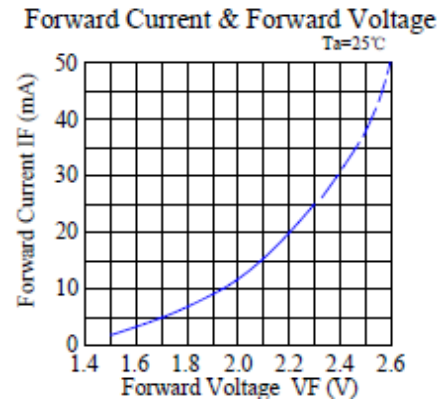
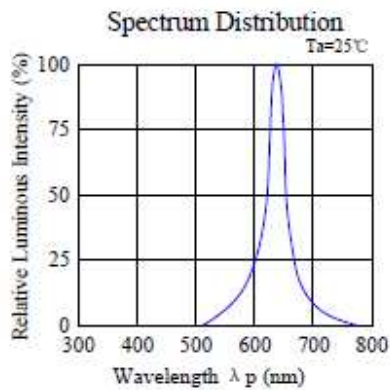
Electrical and Optical Characteristic (@ 25 degree C)

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

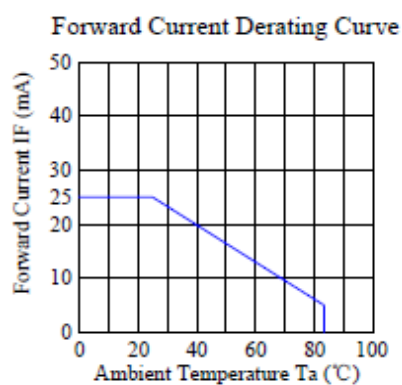
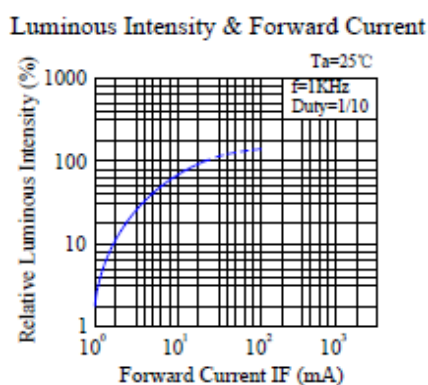
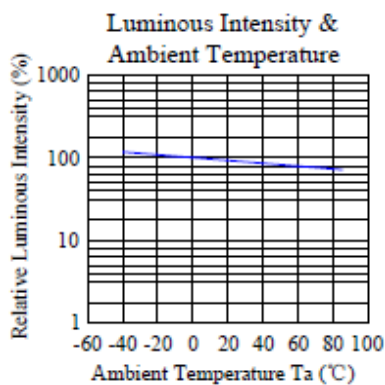
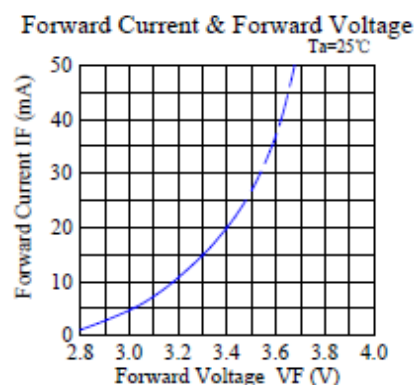
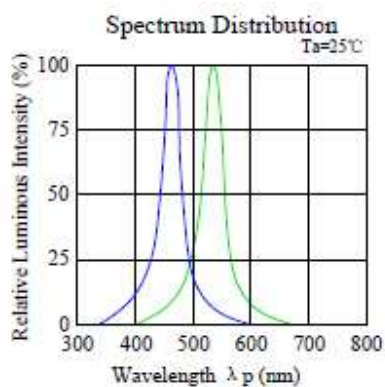
Parameter	R	G	B	Test Condition
Luminous Intensity:				
Min (mcd)	350	450	250	If=20mA
Typ (mcd)	600	1000	500	If=20mA
Forward voltage (Vf)				
Typ	2.0	3.4	3.4	If=20mA
Max	2.6	3.8	3.8	If=20mA
Dominant Wavelength (nm)	624	525	470	If=20mA
Viewing Angle (Deg)	60	60	60	If=20mA

■ Brightness tolerance = +/- 10%

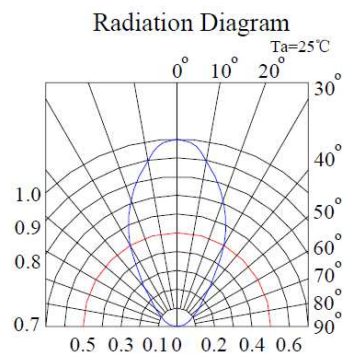
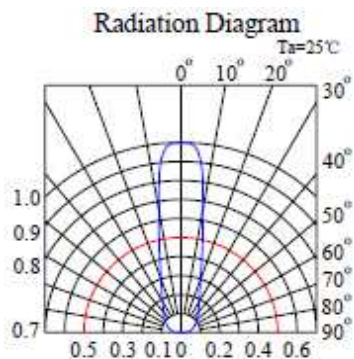
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Characteristic Curves for Red (R)


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


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Radiation Diagram


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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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