

# 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.		July 21, 2015	Version of 1.1	Page 1/11



#### **DISCLAIMER**

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#### LIFE SUPPORT POLICY

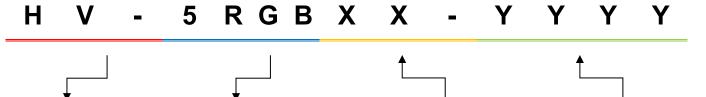
INOLUX's products are not authorized for use as critical components in life support devices or systems without the express written approval of the President of INOLUX or INOLUX INTERNATIONAL. As used herein:

- 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.

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## **Orderable Information**



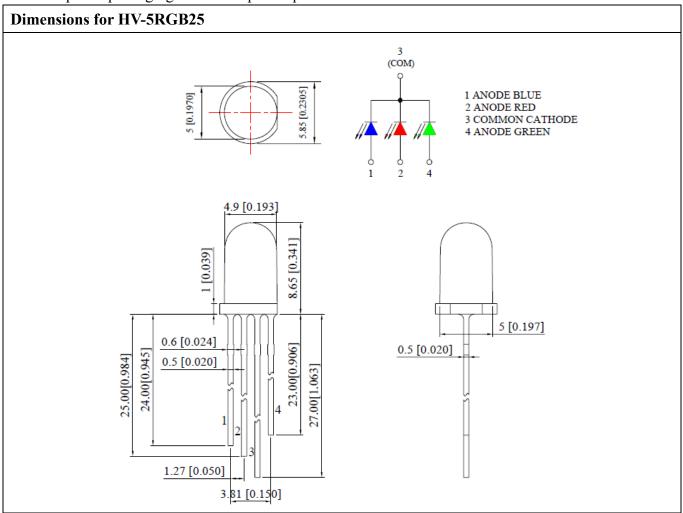
Series Name	Color Code	Viewing Angle	Customer Code
HV=	RGB=	<b>25=</b> 25°	YYYY =
Inolux Through	632nm AllnGaP Red	<b>60=</b> 60°	Customer code
Hole Lamp	520nm InGaN Green		
	470nm InGaN Blue		

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### Features:

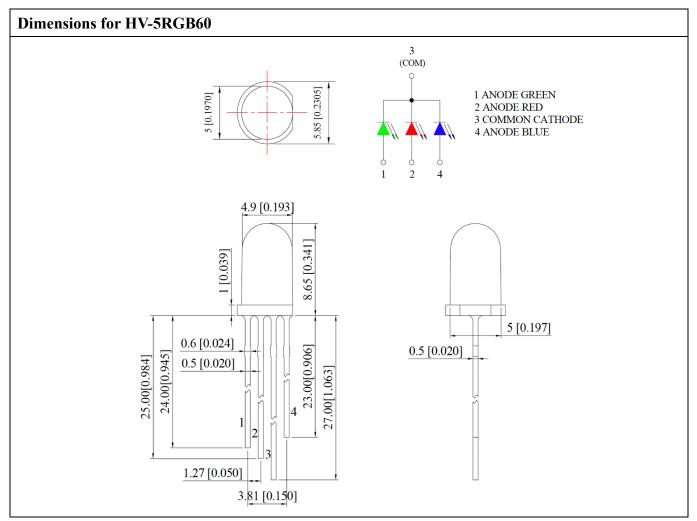
- Full-Color
- Popular 5mm through hole package
- White Diffused Lens
- AllnGaP/InGaN technology
- Solid state reliability
- Special packaging available upon request



- -All Dimensions are in millimeters
- -Tolerance =  $\pm$  0.25mm

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# **Absolute Maximum Ratings at Ta=25**C

Parameter	Symbol	AllnGaP	InGaN	Unit
Power Dissipation	Pd	65	95	mW
Reverse Voltage	Vr	4	5	V
Forward Current	IF	2	5	mA
Reverse Current	Ir	10		μΑ
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	26	60	° C

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# Electrical and Optical Characteristic ( @ 25 degree C )

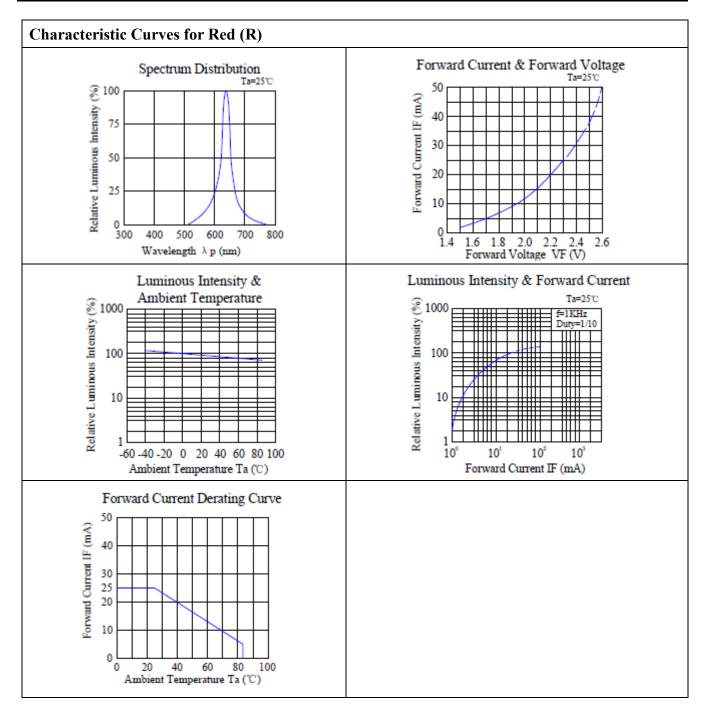
Parameter	R	G	В	<b>Test Condition</b>
Luminous Intensity:				
Min (mcd)	1600	2000	1000	If=20mA
Typ (mcd)	3200	4000	2000	If=20mA
Forward voltage (Vf)				
Тур	2.0	3.4	3.4	If=20mA
Max	2.6	3.8	3.8	If=20mA
Dominant Wavelength (nm)	624	525	470	If=20mA
Viewing Angle (Deg)	25	25	25	If=20mA

Parameter	R	G	В	<b>Test Condition</b>
Luminous Intensity:				
Min (mcd)	350	450	250	If=20mA
Typ (mcd)	600	1000	500	If=20mA
Forward voltage (Vf)				
Тур	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

<sup>-</sup> Brightness tolerance = +/- 10%

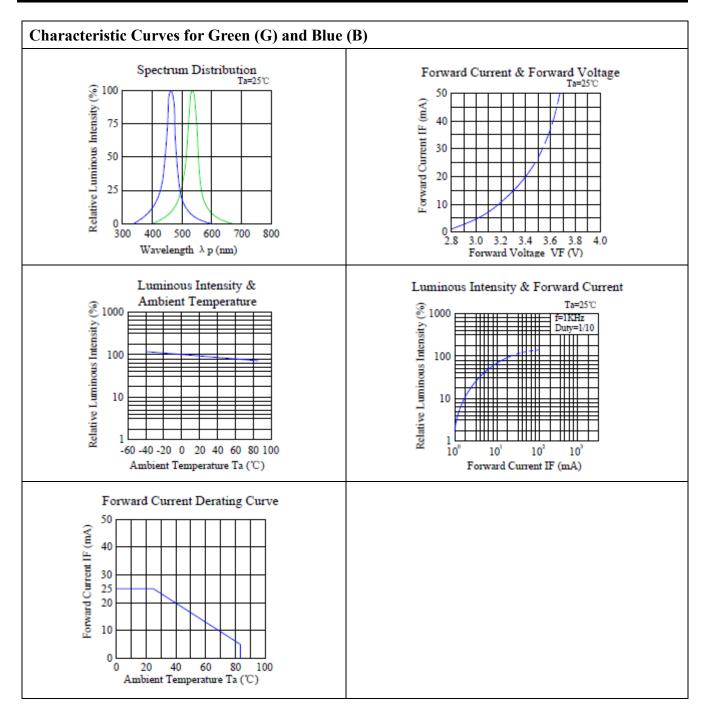
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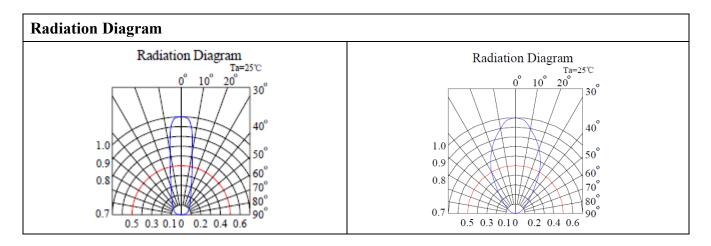
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### **Revision History**

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

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## **Mouser Electronics**

**Authorized Distributor** 

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Inolux:

HV-5RGB60 HV-5RGB25