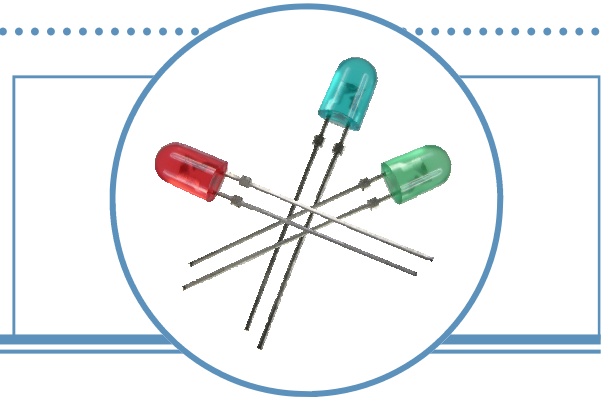


# Round Green LED Lamp (3mm)



## OVLG6CB8

- 65° viewing angle
- Diffused lens for uniform light output
- Available on tape or reel
- Green color (527nm)

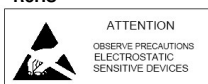
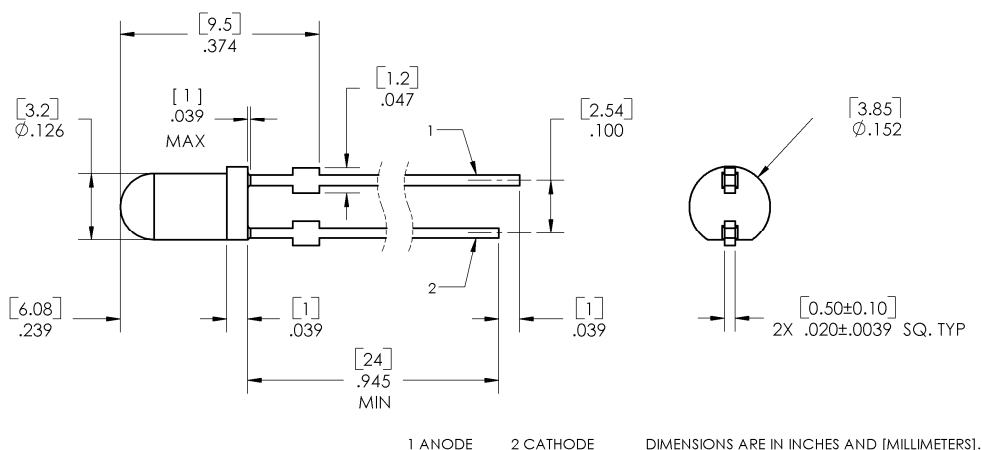


The OVLG6CB8 is designed for wide-angle, uniform light output. The industry standard leads have a stand-off making this package ideal for PC board process assembly.

### Applications

- Indicators for Medical, Industrial, Consumer, and Office Equipment
- Indicators for White Goods and Home Appliances
- Interior and Exterior Architectural and Accent Lighting
- Signs and Digital Information Displays, Video Screen Non-color and RGB Presentation
- Automotive Backlighting and Indicators

Part Number	Material	Emitted Color	Intensity Typ. mcd	Lens Color
OVLG6CB8	InGaN	Green	2000	White Diffused



OPTEK reserves the right to make changes at any time in order to improve design and to supply the best product possible.

# Round Green LED Lamp (3mm)

## OVL6GCB8



### Absolute Maximum Ratings

T<sub>A</sub> = 25°C unless otherwise noted

Storage Temperature Range	-40 ~ +100 °C
Operating Temperature Range	-40 ~ +95 °C
Reverse Voltage	5 V
Continuous Forward Current	25 mA
Peak Forward Current (10% Duty Cycle, 1KHz)	100 mA
Power Dissipation	105 mW
Lead Soldering Temperature (3mm from the base of the epoxy bulb) <sup>1</sup>	260 °C

Note:

- Solder time less than 3 seconds at temperature extreme.

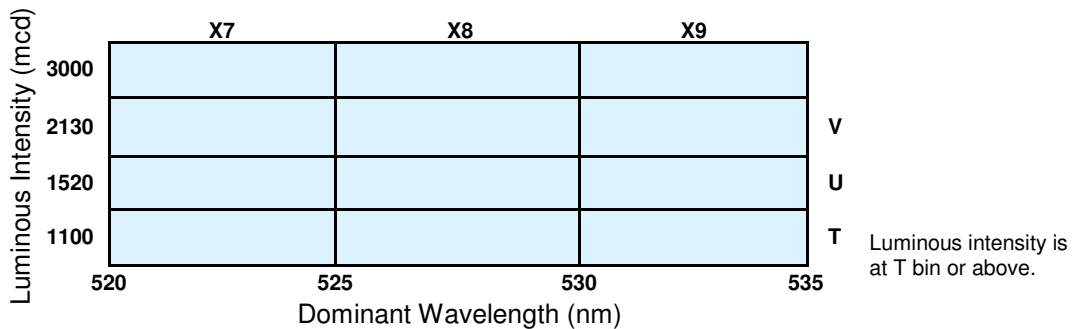
### Electrical Characteristics

T<sub>A</sub> = 25°C unless otherwise noted

SYMBOL	PARAMETER	MIN	TYP	MAX	UNITS	CONDITIONS
I <sub>v</sub>	Luminous Intensity	1100	2000	----	mcd	I <sub>F</sub> = 20mA
V <sub>F</sub>	Forward Voltage	----	3.6	4.2	V	I <sub>F</sub> = 20mA
V <sub>F</sub>	Forward Voltage	1.7	----	2.5	V	I <sub>F</sub> = 1.0µA
I <sub>R</sub>	Reverse Current	----	----	100	µA	V <sub>R</sub> = 5V
λ <sub>D</sub>	Dominant Wavelength	520	527	535	nm	I <sub>F</sub> = 20mA
2Θ <sub>1/2</sub> H-H	50% Power Angle	----	65	----	deg	I <sub>F</sub> = 20mA

### Standard Bins (I<sub>F</sub> = 20mA)

Lamps are sorted to luminous intensity (I<sub>v</sub>) and dominant wavelength (λ<sub>D</sub>) bins shown. Orders for OVL6GCB8 may be filled with any or all bins contained as below.



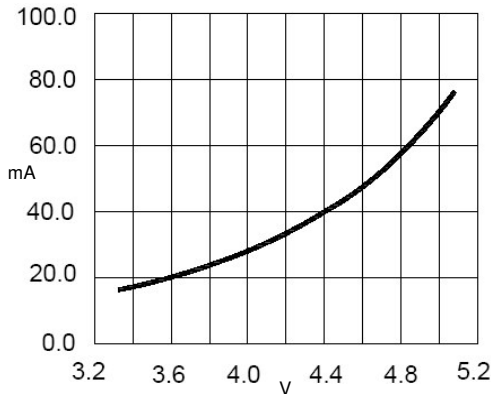
#### Important Notes:

- All ranks will be included per delivery, rank ratio will be based on the chip distribution.
- To designate luminous intensity ranks, please contact OPTEK.
- Pb content <1000PPM.

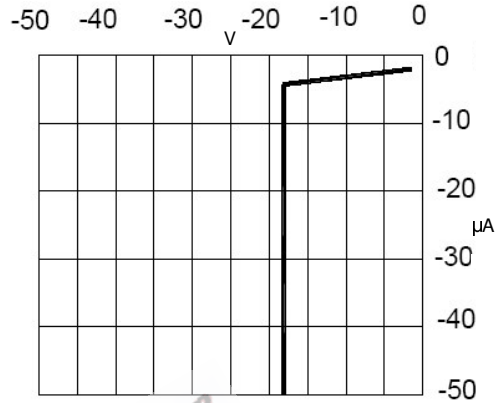
# Round Green LED Lamp (3mm) OVL6G6CB8



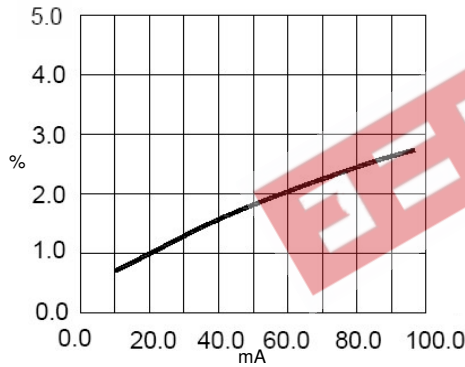
## Typical Electro-Optical Characteristics Curves



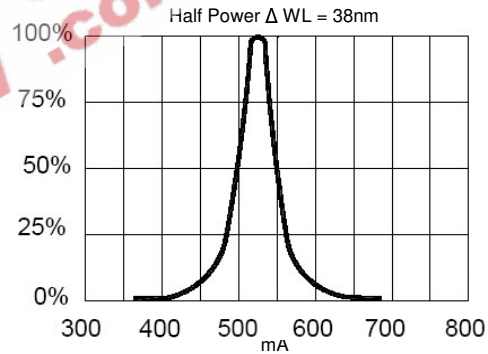
Forward Current vs. Forward Voltage



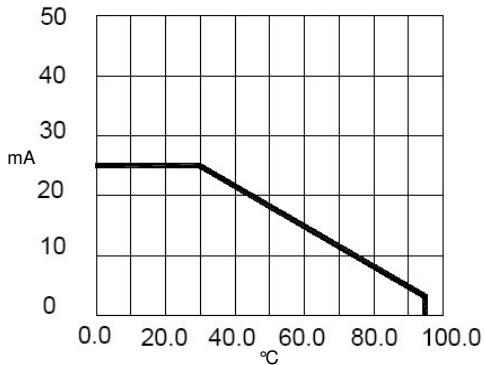
Reverse Current vs. Reverse Voltage



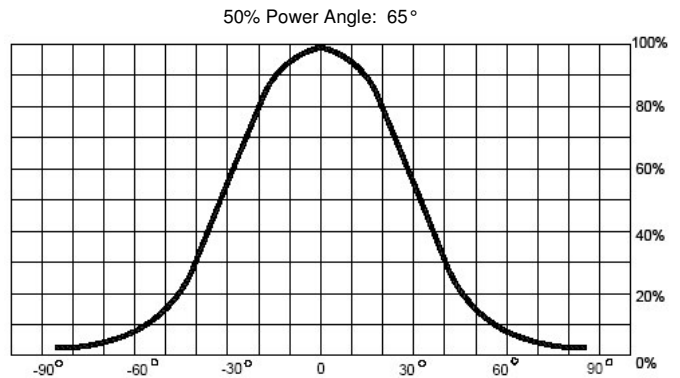
Relative Luminous Intensity vs. Forward Current



Relative Luminous Intensity vs. Wavelength



Maximum Forward DC Current vs. Ambient Temperature



Far Field Pattern

Round Green LED Lamp (3mm)  
OVL6G6CB8



Issue	Change Description	Approval	Date
1.0	Initial Release	J. Haynie	June 27, 2005