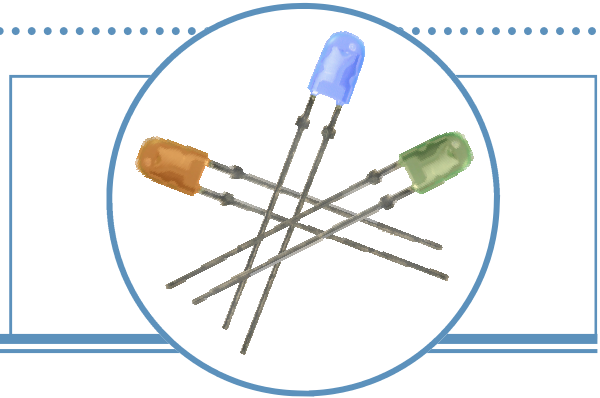


# Oval Blue LED Lamp (4mm)

[查询"OVLJBGD8"供应商](#)

## OVLJBGD8

- High luminous intensity
- Defined spatial radiation
- Multiple viewing angles
- UV-resistant epoxy
- Precision optical performance

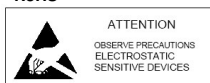
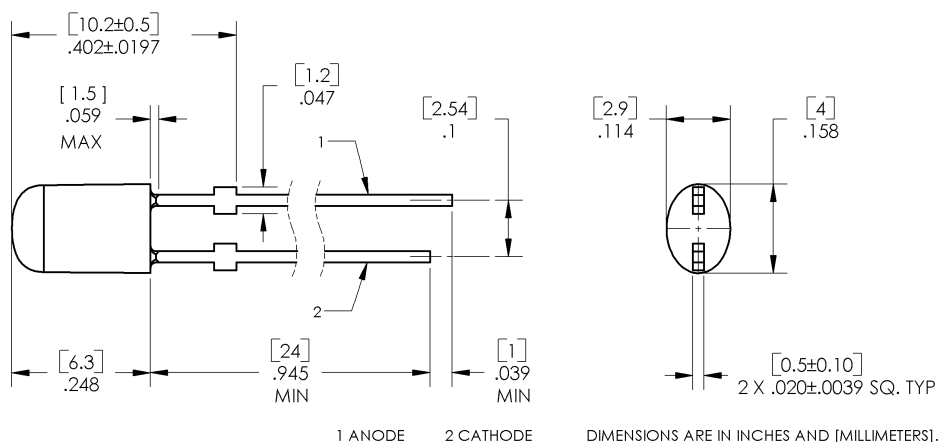


The OVLJBGD8 is designed for superior performance in outdoor environments. Its radiation pattern matches red (OVLJRGD8) and green (OVLJGGD8) devices in identical packages to create LED pixels for full-color video screens.

## Applications

- Variable Message Signs
- Indoor/Outdoor Advertising Signage
- Traffic and Highway Signs
- Full-Color Video Signs

Part Number	Material	Emitted Color	Intensity Typ. mcd	Lens Color
OVLJBGD8	InGaN	Blue	300	Blue Diffused



Data is subject to change without prior notice.

# Oval Blue LED Lamp (4mm)

OVLEJBGD8  
[查询"OVLEJBGD8"供应商](#)



## 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.

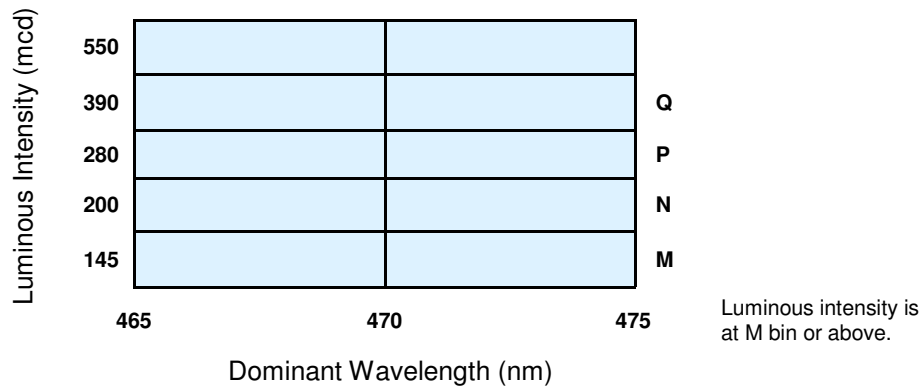
## Electrical Characteristics

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

SYMBOL	PARAMETER	MIN	TYP	MAX	UNITS	CONDITIONS
I <sub>v</sub>	Luminous Intensity	145	300	----	mcd	I <sub>F</sub> = 20mA
V <sub>F</sub>	Forward Voltage	----	3.6	4.2	V	I <sub>F</sub> = 20mA
I <sub>R</sub>	Reverse Current	----	----	100	μA	V <sub>R</sub> = 5V
λ <sub>D</sub>	Dominant Wavelength	465	470	475	nm	I <sub>F</sub> = 20mA
2Θ <sub>½H-H</sub>	50% Power Angle	----	100	----	deg	I <sub>F</sub> = 20mA
2Θ <sub>½V-V</sub>		----	50	----	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 OVLEJBGD8 may be filled with any or all bins contained as below.



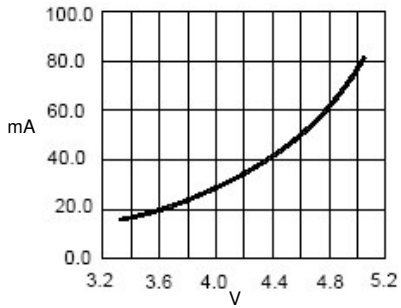
### Important Notes:

- 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.

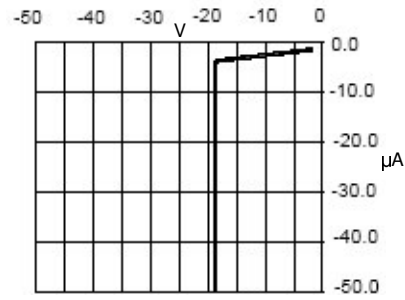
# Oval Blue LED Lamp (4mm)

查询"OVLJBGD8"供应商  
OVLJBGD8

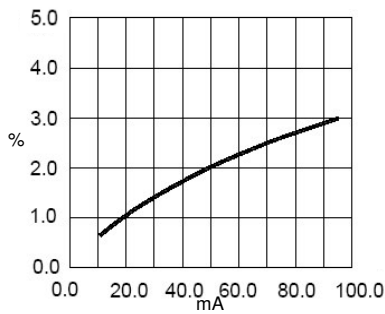
## Typical Electro-Optical Characteristics Curves



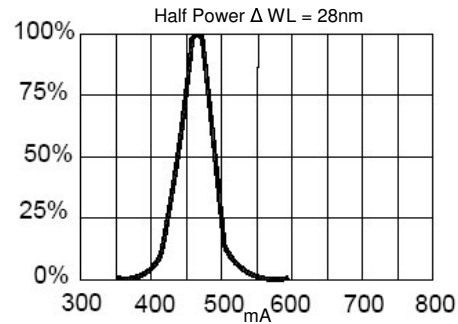
Forward Current vs. Forward Voltage



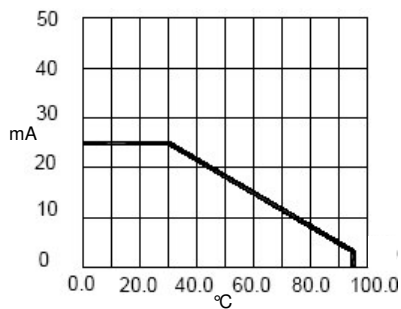
Reverse Current vs. Reverse Voltage



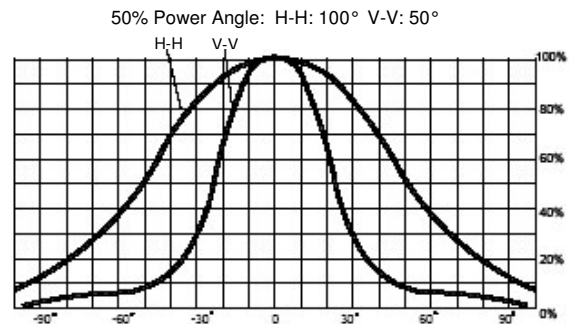
Relative Luminous Intensity vs. Forward Current



Relative Luminous Intensity vs. Wavelength



Maximum Forward DC Current vs. Ambient Temperature



Far Field Pattern

