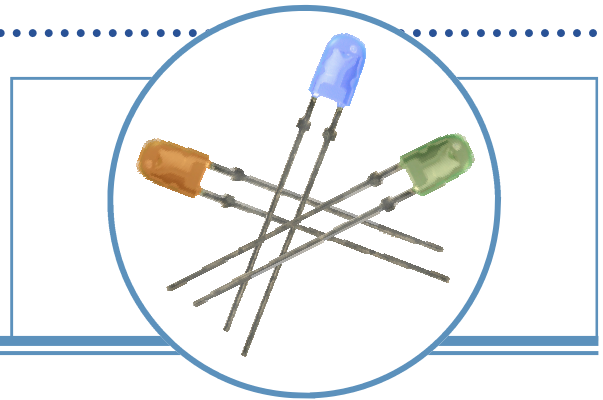


Oval Blue LED Lamp (3mm)

OVLKBGT6

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

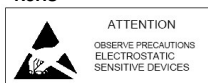
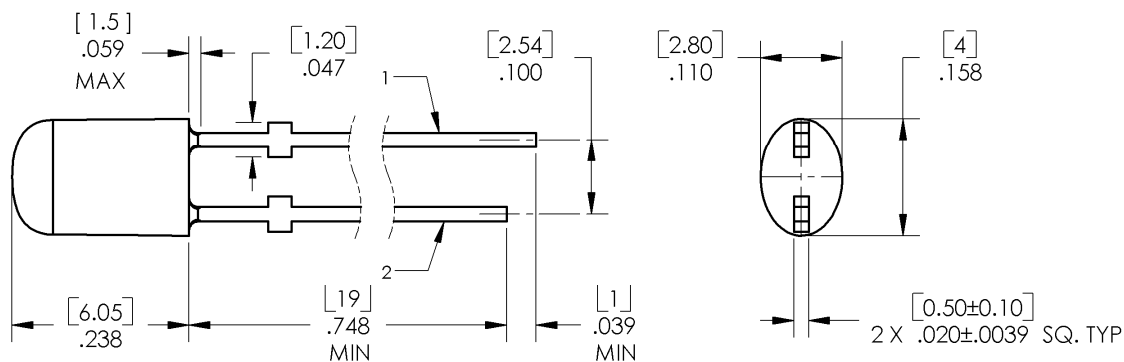


The OVLKBGT6 is designed for superior performance in outdoor environments. Its radiation pattern matches green (OVLKGGT6) and red-orange (OVLKQGT6) devices in identical packages to create LED pixels for full-color video screens.

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
OVLKBGT6	InGaN	Blue	300	Blue Diffused



Data is subject to change without prior notice.

Oval Blue LED Lamp (3mm)

OVLKBGT6

Absolute Maximum Ratings

$T_A = 25^\circ\text{C}$ unless otherwise noted

Storage Temperature Range	-40 ~ +100 °C
Operating Temperature Range	-30 ~ +80 °C
Reverse Voltage	5 V
Continuous Forward Current	30 mA
Peak Forward Current (10% Duty Cycle, 1KHz)	100 mA
Power Dissipation	120 mW
Lead Soldering Temperature (5 seconds max)	260 °C

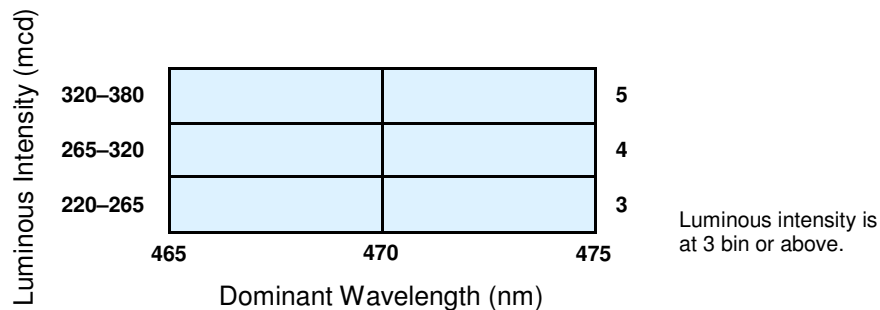
Electrical Characteristics

$T_A = 25^\circ\text{C}$ unless otherwise noted

SYMBOL	PARAMETER	MIN	TYP	MAX	UNITS	CONDITIONS
I_V	Luminous Intensity	220	300	----	mcd	$I_F = 20\text{ mA}$
V_F	Forward Voltage	----	3.4	3.9	V	$I_F = 20\text{ mA}$
I_R	Reverse Current	----	----	2	μA	$V_R = 5\text{ V}$
λ_D	Dominant Wavelength	465	470	475	nm	$I_F = 20\text{ mA}$
$2\Theta_{1/2}$	50% Power Angle	----	x: 100	----	deg	$I_F = 20\text{ mA}$
			y: 60			

Standard Bins ($I_F = 20\text{mA}$)

Lamps are sorted to luminous intensity (I_V) and dominant wavelength (λ_D) bins shown. Orders for OVLKBGT6 may be filled with any or all bins contained as below.



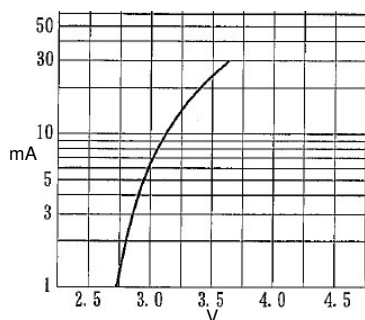
Important Notes:

1. All ranks will be included per delivery, rank ratio will be based on the chip distribution.
2. To designate luminous intensity ranks, please contact OPTEK.
3. When soldering, leave 2.5mm minimum clearance between the resin base and the soldering point.

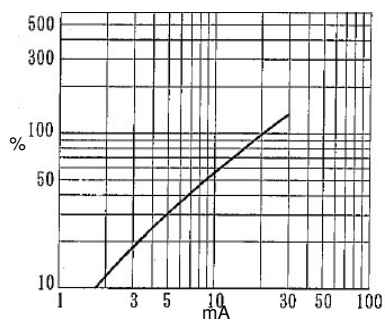
Oval Blue LED Lamp (3mm)

OVLKBGT6

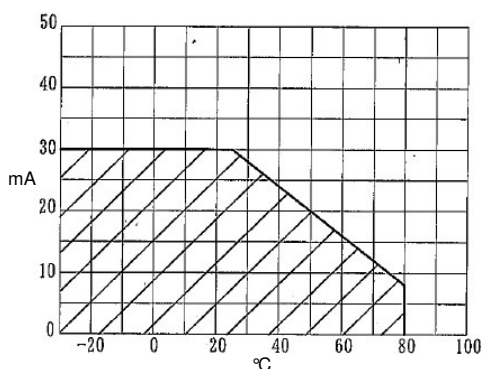
Typical Electro-Optical Characteristics Curves



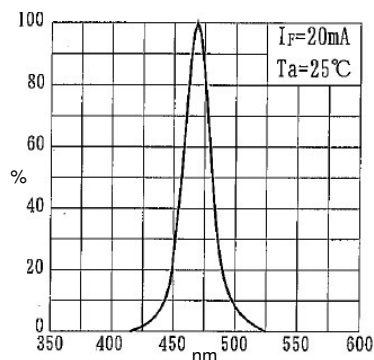
Forward Current vs. Forward Voltage



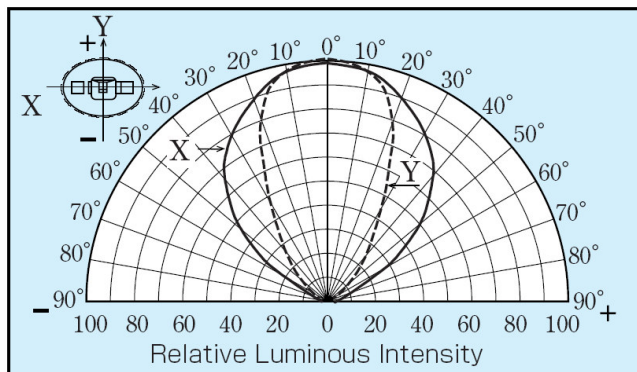
Relative Luminous Intensity vs. Forward Current



Maximum Forward DC Current vs. Ambient Temperature



Relative Luminous Intensity vs. Wavelength



OVLKBGT6

[illegible]