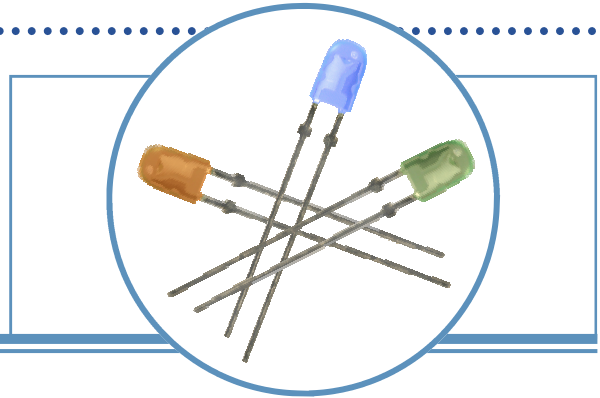


Oval Green LED Lamp (3mm)

OVLKGGT6

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

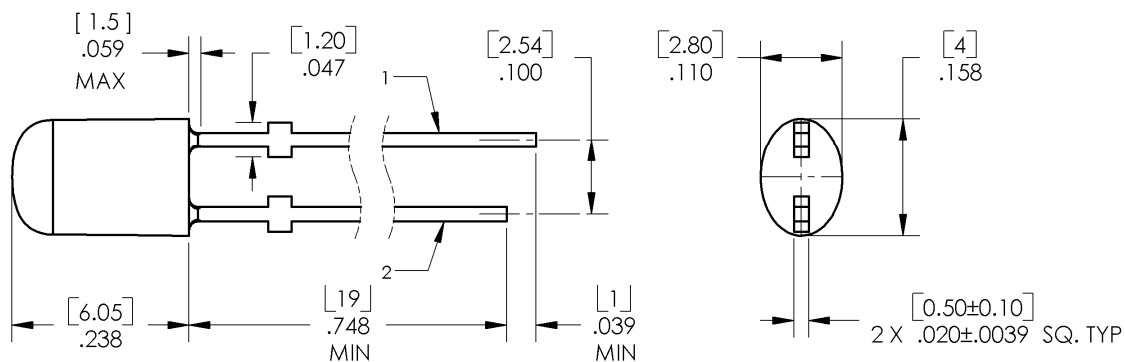


The OVLKGGT6 is designed for superior performance in outdoor environments. Its radiation pattern matches blue (OVLKBGT6) and red-orange (OVLKQGT6) devices in identical packages to create LED pixels for full-color video screens.

Applications

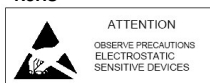
- Variable Message Signs
- Indoor/Outdoor Advertising Signage
- Traffic and Highway Signs
- Full-Color Video Signs

Part Number	Material	Emitted Color	Intensity Typ. mcd	Lens Color
OVLKGGT6	InGaN	Green	1100	Green Diffused



1 ANODE 2 CATHODE

DIMENSIONS ARE IN INCHES AND [MILLIMETERS].



Data is subject to change without prior notice.

Oval Green LED Lamp (3mm)

OVLKGGT6

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

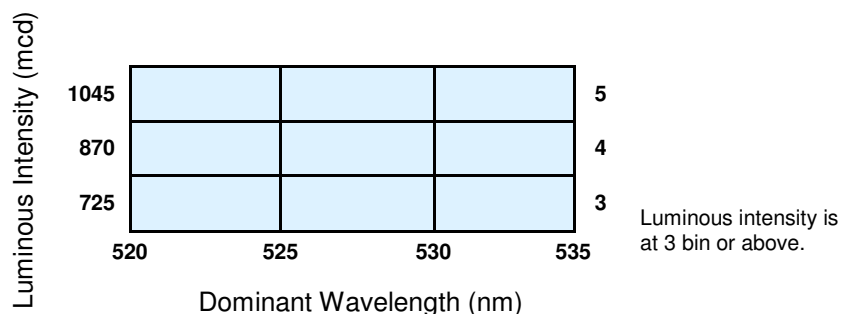
Electrical Characteristics

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

SYMBOL	PARAMETER	MIN	TYP	MAX	UNITS	CONDITIONS
I_V	Luminous Intensity	725	1100	----	mcd	$I_F = 20\text{ mA}$
V_F	Forward Voltage	----	3.3	3.9	V	$I_F = 20\text{ mA}$
I_R	Reverse Current	----	----	2	μA	$V_R = 5\text{V}$
λ_D	Dominant Wavelength	520	525	535	nm	$I_F = 20\text{ mA}$
$2\ \Theta_{1/2}$	50% Power Angle	----	x: 100 y: 60	----	deg	$I_F = 20\text{ mA}$

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

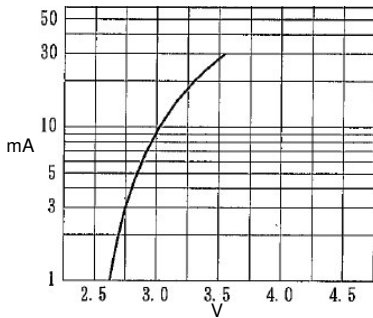
Lamps are sorted to luminous intensity (I_V) and dominant wavelength (λ_D) bins shown. Orders for OVLKGGT6 may be filled with any or all bins contained as below.



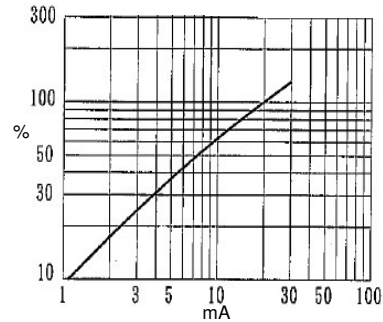
Important Notes:

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

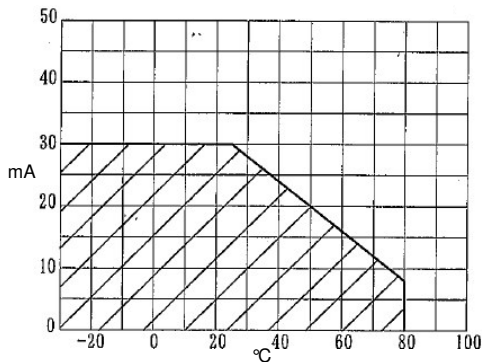
Typical Electro-Optical Characteristics Curves



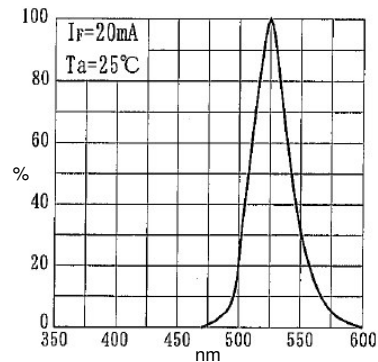
Forward Current vs. Forward Voltage



Relative Luminous Intensity vs. Forward Current



Maximum Forward DC Current vs. Ambient Temperature



Relative Luminous Intensity vs. Wavelength

