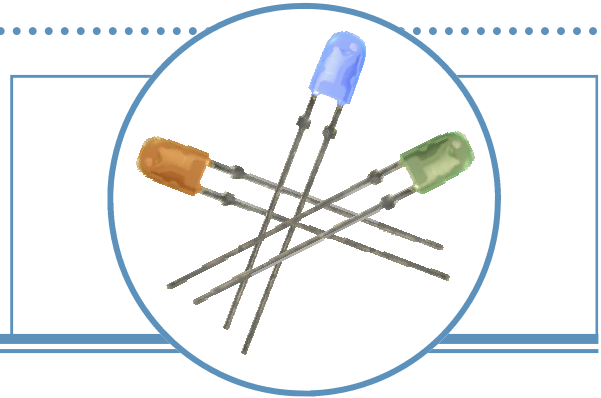


Oval Orange LED Lamp

查询"OVLHQKD8"供应商
(5 mm)

OVLHQKD8

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

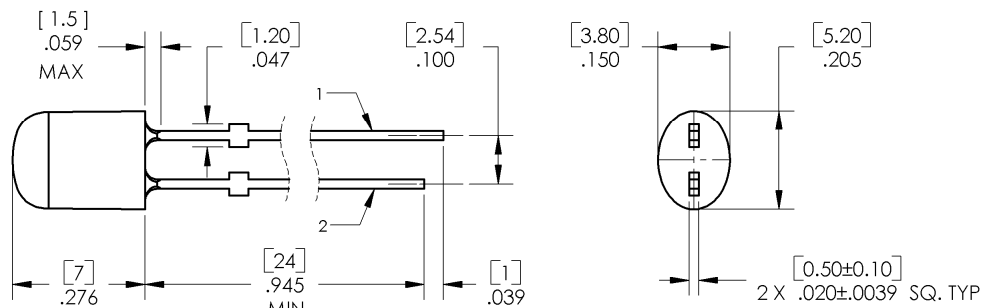


The **OVLHQKD8** is designed for superior performance in outdoor environments. Its radiation pattern matches red (OVLHRKD8), blue (OVLHBKD8), and green (OVLHGKD8) devices in identical packages to create LED pixels for full-color video screens.

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
OVLHQKD8	AllnGaP	Orange	800	Orange Diffused



DIMENSIONS ARE IN INCHES AND [MILLIMETERS].



RoHS



**DO NOT LOOK DIRECTLY
AT LED WITH UNSHIELDED
EYES OR DAMAGE TO
RETINA MAY OCCUR.**

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

Oval Orange LED Lamp (5 mm)

查询"OVLHQBK8"供应商
OVLHQBK8



Absolute Maximum Ratings

T_A = 25° C unless otherwise noted

Storage Temperature Range	-40 ~ +100° C
Operating Temperature Range	-40 ~ +95° C
Reverse Voltage	5 V
Continuous Forward Current ²	50 mA
Peak Forward Current (10% Duty Cycle, 1KHz)	200 mA
Power Dissipation	130 mW
Lead Soldering Temperature (3mm from the base of the epoxy bulb) ¹	260° C

Note:

- Solder time less than 3 seconds at temperature extreme.
- For long-term performance, the drive currents between 10mA and 30mA are recommended. Please contact an OPTEK sales representative for more information on recommended drive conditions.

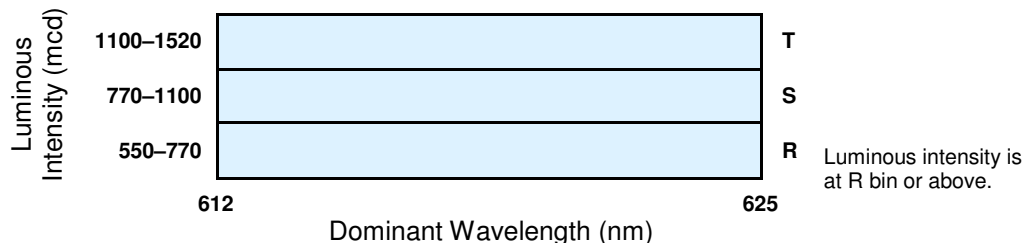
Electrical Characteristics

T_A = 25° C unless otherwise noted

SYMBOL	PARAMETER	MIN	TYP	MAX	UNITS	CONDITIONS
I _v	Luminous Intensity	550	800	----	mcd	I _F = 20 mA
V _F	Forward Voltage	----	2.3	2.6	V	I _F = 20 mA
I _R	Reverse Current	----	----	100	μA	V _R = 5 V
λ _D	Dominant Wavelength	612	618	625	nm	I _F = 20 mA
2Θ _{1/2} H-H	50% Power Angle	----	110	----	deg	I _F = 20 mA
2Θ _{1/2} V-V		----	50	----	deg	I _F = 20 mA

Standard Bins (I_F = 20mA)

Lamps are sorted to luminous intensity (I_v) and dominant wavelength (λ_D) bins shown. Orders for OVLHQBK8 may be filled with any or all bins contained as below.



Important Notes:

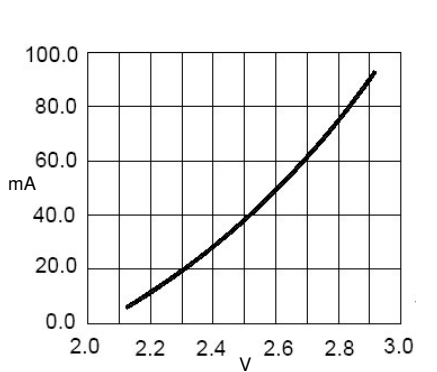
- All ranks will be included per delivery, rank ratio will be based on the chip distribution.
- To designate luminous intensity ranks, please contact OPTEK.
- Pb content <1000 PPM.

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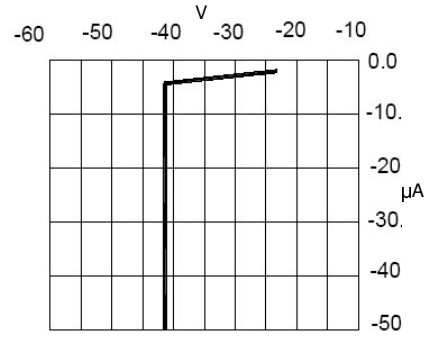
Oval Orange LED Lamp (5 mm)

查询"OVLHQKD8"供应商
OVLHQKD8

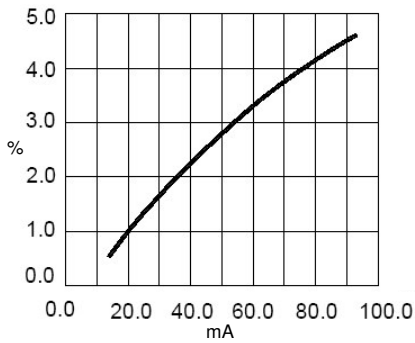
Typical Electro-Optical Characteristics Curves



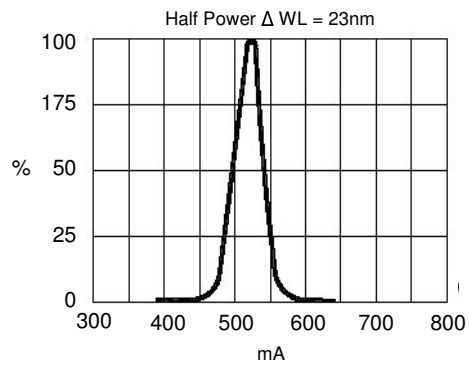
Forward Current vs Forward Voltage



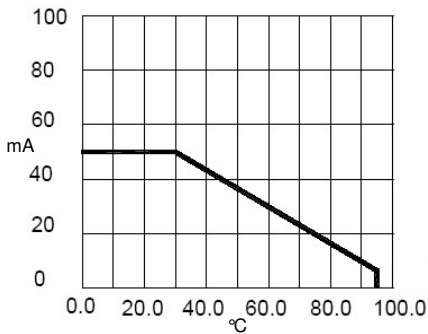
Reverse Current vs Reverse Voltage



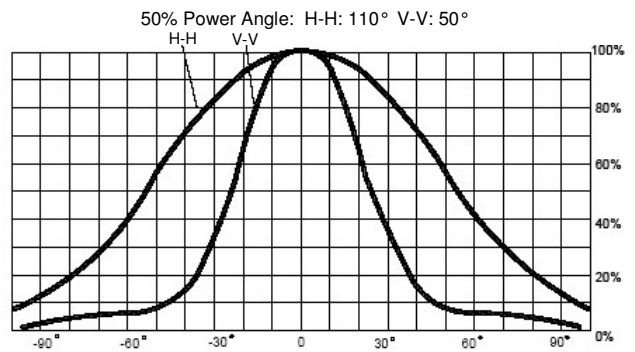
Relative Luminous Intensity vs Forward Current



Relative Luminous Intensity vs Wavelength



Maximum Forward DC Current vs Ambient Temperature



Far Field Pattern

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