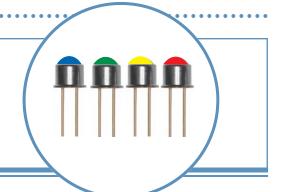
# Hi-Reliability Visible LED Lamp (TO46)



#### OVM4x, OVM4xTX, OVM4xTXV

- Hermetically sealed TO-46 package
- Choice of blue, green, red or yellow
- High-brightness with well-defined spatial radiation patterns
- ESD protection built in



Each **OVM4x**, **OVM4xTX** and **OVM4xTXV** device is a high-reliability, high-sensitivity visible LED that is mounted in a hermetically sealed TO-46 package.

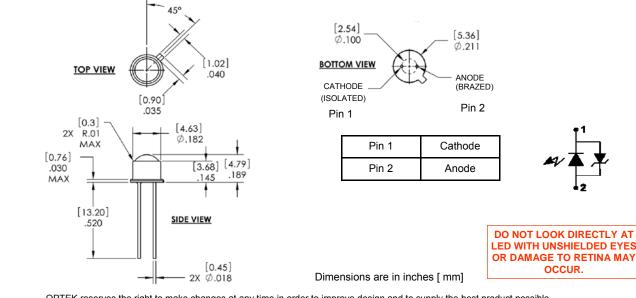
"Hi-Reliability" Visible LEDs function in the abnormally severe levels of mechanical, environmental and electrical stress that are typical of military and harsh industrial applications.

**OVM4xTX** and **OVM4xTXV** devices are processed to OPTEK's 100% screening and QCI program-patterned after MIL-PRF-19500. Group A and B are performed on every lot. Group C is performed every six months.

#### Applications

- Automotive exterior and interior lighting
- Architectural lighting
- Electronic signs and signals

Part Number	Part Number	Material	Emitted Color	Intensity Typ. (mcd)	Lens Color	
OVM4BTX	OVM4BTXV	InGaN	Blue	2260	Clear Glass	
OVM4GTX	OVM4GTXV	InGaN	Green	6520	Clear Glass	
OVM4RTX	OVM4RTXV	AllnGaP	Red	3300	Clear Glass	
OVM4YTX	OVM4YTXV	AllnGaP	Yellow	2010	Clear Glass	





# Absolute Maximum Ratings $T_A = 25^{\circ} C$ unless otherwise noted

Storage Temperature Range	-65° C to +150° C
Operating Temperature Range	-55° C to +100° C
Reverse Voltage	5 V
Continuous Forward Current <sup>2</sup>	100 mA
Peak Forward Current (10% Duty Cycle, 1 KHz)	1.6 A
Power Dissipation	370 mW
Lead Soldering Temperature (3mm from the case) <sup>1</sup>	260° C
Current Linearity vs. Ambient Temperature	-0.2 mA/° C
LED Junction Temperature	115° C

Notes:

1. Solder time less than 5 seconds at temperature extreme.

2. Design of heat dissipation should be considered.

## **Electrical Characteristics**

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

SYMBOL	PARAMETER		MIN	ТҮР	MAX	UNITS	CONDITIONS
l <sub>v</sub>	Luminous Intensity	Blue		2260		mcd	I <sub>F</sub> = 20 mA
		Green		6520			
		Red		3300			
		Yellow		2010			
VF	Forward Voltage	Blue		2.60	2.95	- v	I <sub>F</sub> = 20 mA
		Green		2.60	2.95		
		Red		1.80	2.15		
		Yellow		1.80	2.15		
λ <sub>P</sub>	Peak Wavelength	Blue		463		- nm	I <sub>F</sub> = 20 mA
		Green		530			
		Red		630			
		Yellow		591			
λ <sub>D</sub>	Dominant Wavelength	Blue	460	465	470	nm	I <sub>F</sub> = 20 mA
		Green	520	530	540		
		Red	619	624	629		
		Yellow	584	589	594		
Δλ	Spectral Half Width	Blue		22		- nm	I <sub>F</sub> = 20 mA
		Green		35			
		Red		15			
		Yellow		18			
2 0 1⁄2	50% Power Angle			18		deg	I <sub>F</sub> = 20 mA

Notes:

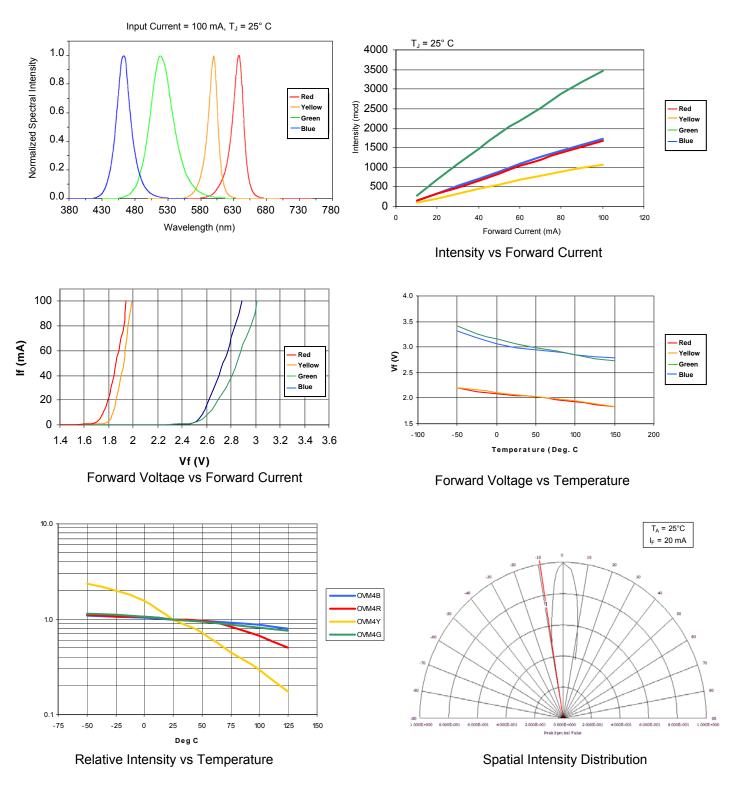
1. All ranks will be included per delivery, rank ratio will be based on the chip distribution.

2. To designate luminous intensity ranks, please contact OPTEK.

3. Pb content <1000 PPM.



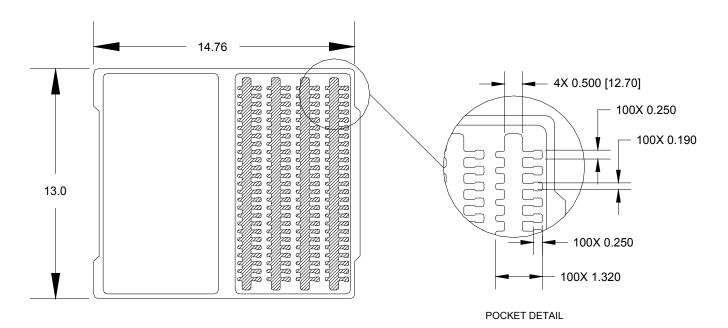
### Typical Electro-Optical Characteristics Curves

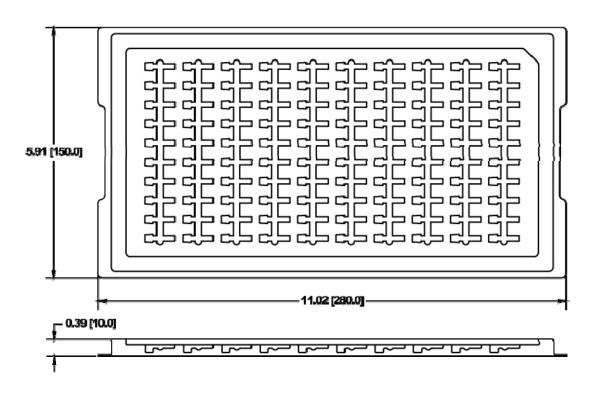




#### Shipping Information:

Optek UV LEDs are shipped in either of the below noted conductive trays made for ESD sensitive devices. Each tray contains up to 100 pieces and is then sealed in a plastic ESD bag. Tray dimensions are in inches (mm).





# **X-ON Electronics**

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