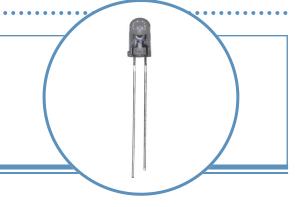
Round Through-Hole LED Lamp (5 mm)



OVLFx3C7 Series

- High brightness with well-defined spatial radiation patterns
- UV-resistant epoxy lens
- Blue, green, red, yellow

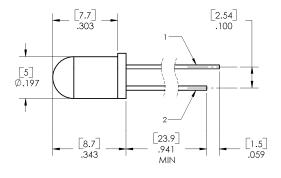


Each device in the **OVLFx3C7** series is a high-intensity LED mounted in a clear plastic T-1¾ package. The LED provides a well-defined and even emission pattern. Its UV-resistant epoxy lens makes this device an optimal solution for outdoor applications.

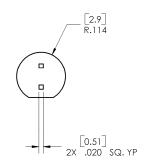
Applications

- Traffic and pedestrian signals
- Signage and architectural lighting
- Backlighting
- Automotive

Part Number	Material	Emitted Color	Intensity Typ. mcd	Lens Color
OVLFB3C7	InGaN	Blue	1350	Water Clear
OVLFG3C7	InGaN	Green	5200	Water Clear
OVLFR3C7	AllnGaP	Red	5000	Water Clear
OVLFY3C7	AllnGaP	Yellow	5700	Water Clear







DIMENSIONS ARE IN: [MILLIMETERS] INCHES



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



Absolute Maximum Ratings T_A = 25° C unless otherwise noted

Storage Temperature Range	-40 ~ +100 °C	
Operating Temperature Range	-40 ~ +85 °C	
Reverse Voltage		5 V
Continuous Forward Current	Blue, Green	20 mA
Continuous Forward Current	Red, Yellow	30 mA
Dook Forward Compant (400/ Dotte Cools 4 MI)	Blue, Green	50 mA
Peak Forward Current (10% Duty Cycle, 1 kHz)	Red, Yellow	100 mA
Device Discipation	Blue, Green	100 mW
Power Dissipation	Red, Yellow	78 mW
Current Linearity ve Ambient Temperature	Blue, Green	-0.2 mA/° C
Current Linearity vs Ambient Temperature	Red, Yellow	-0.5 mA/° C
LED Junction Temperature	125° C	
Lead Soldering Temperature (3 mm from the base of the epoxy	260° C	

Electrical Characteristics

T_A = 25° C unless otherwise noted

SYMBOL	PARAMETER	COLOR	MIN	TYP	MAX	UNITS	CONDITIONS
I _V	Luminous Intensity	Blue	810	1350		mcd	I _F = 20 mA
		Green	3115	5200			
		Red	2820	5000			
		Yellow	3115	5700			
		Blue		3.4	4.0	V	I _F = 20 mA
V _F	Forward Voltage	Green	2.6	3.4	4.0		
	Porward Voltage	Red		2.2	2.6		
		Yellow		2.2	2.6		
I _R		Blue			50		V _R = 5 V
	Reverse Current	Green			50	μΑ	
	Reverse Current	Red			10		
		Yellow			10		
λ_{P}		Blue		466		- nm	I _F = 20 mA
	Peak Wavelength	Green		521			
		Red		633			
		Yellow		593			
λ_{D}		Blue		470		- nm	I _F = 20 mA
	Dominant Wavelength	Green		525			
	Dominant wavelength	Red	619	623	630		
		Yellow		589			
Δλ	Spectra Half Width	Blue		25		- nm	I _F = 20 mA
		Green		25			
		Red		25			
		Yellow		25			
20½H-H 50% Power Angle			30		deg	I _F = 20 mA	

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

Phone: (972) 323-2200 or (800) 341-4747

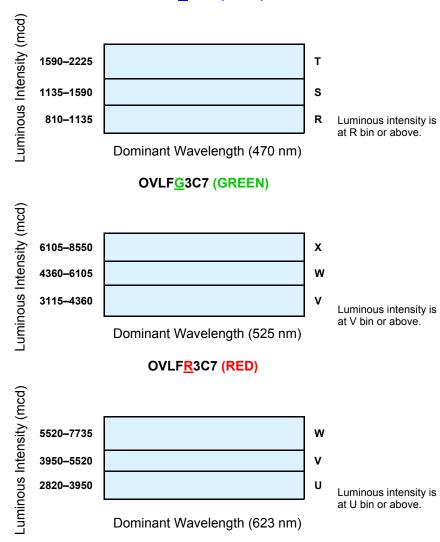
Solder time less than 5 seconds at temperature extreme.



Standard Bins (I_F = 20 mA)

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



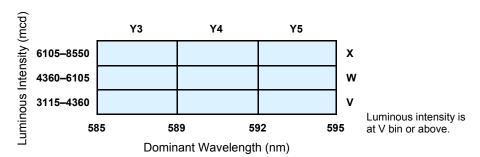


Notes:

- 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.



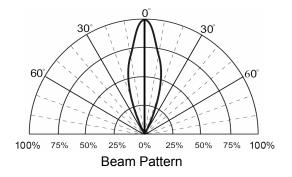
OVLFY3C7 (YELLOW)



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. Pb content <1000 PPM.

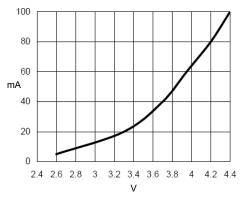
Beam Pattern



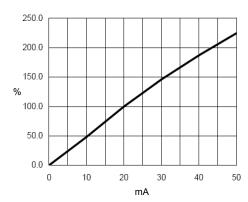
Phone: (972) 323-2200 or (800) 341-4747



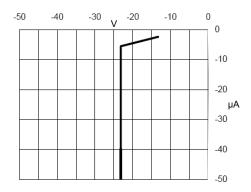
Typical Electro-Optical Characteristics Curves (BLUE)



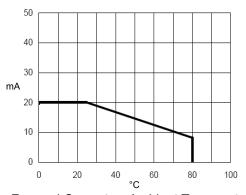
Forward Current vs Forward Voltage



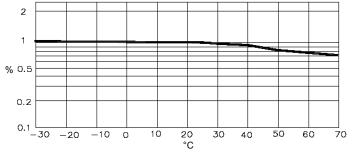
Relative Luminous Intensity vs Forward Current



Reverse Current vs Reverse Voltage



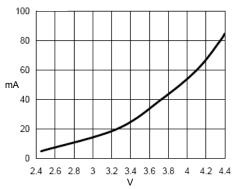
Forward Current vs Ambient Temperature



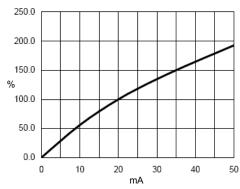
Relative Luminous Intensity vs Ambient Temperature



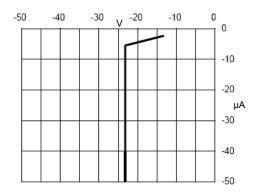
Typical Electro-Optical Characteristics Curves (GREEN)



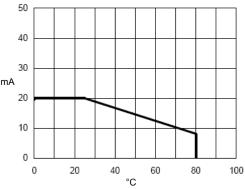
Forward Current vs Forward Voltage



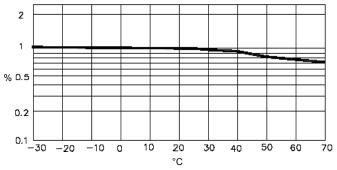
Relative Luminous Intensity vs Forward Current



Reverse Current vs Reverse Voltage



Forward Current vs Ambient Temperature

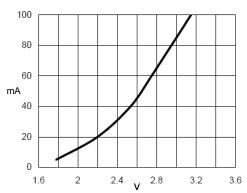


Relative Luminous Intensity vs Ambient Temperature

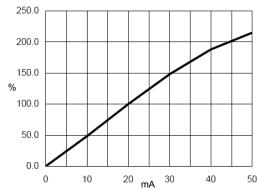
Phone: (972) 323-2200 or (800) 341-4747



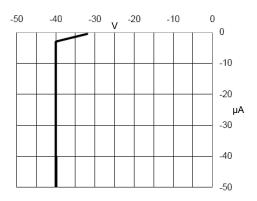
Typical Electro-Optical Characteristics Curves (RED)



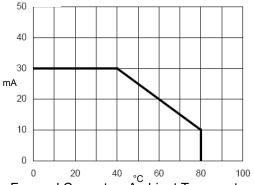
Forward Current vs Forward Voltage



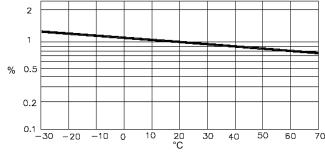
Relative Luminous Intensity vs Forward Current



Reverse Current vs Reverse Voltage



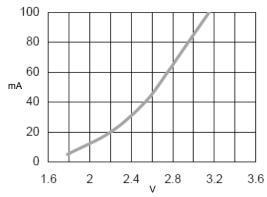
Forward Current vs Ambient Temperature



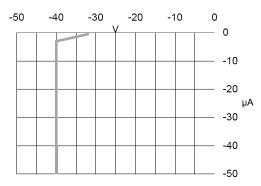
Relative Luminous Intensity vs Ambient Temperature



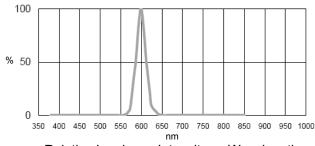
Typical Electro-Optical Characteristics Curves (YELLOW)



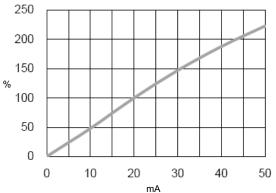
Forward Current vs Forward Voltage



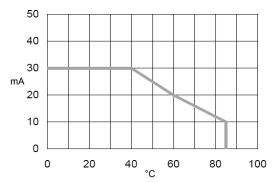
Reverse Current vs Reverse Voltage



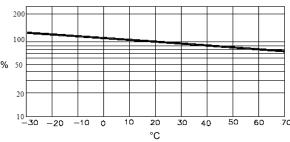
Relative Luminous Intensity vs Wavelength



Relative Luminous Intensity vs Forward Current



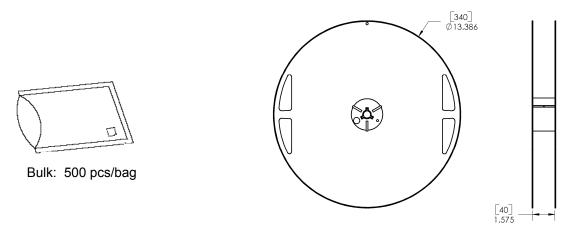
Forward Current vs Ambient Temperature



Relative Luminous Intensity vs Ambient Temperature

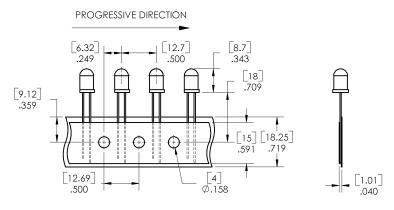


Packing Information: Available in bulk or reel



13-inch reel: 1000 pcs/reel

Carrier Tape Dimensions: Loaded quantity 1000 pieces per reel



DIMENSIONS ARE IN INCHES AND [MILLIMETERS].

Moisture Resistant Packaging

