3mm (T1) Package Discrete LED ORANGE, Ultra Bright



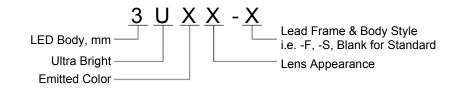
3UOC-X

- Industry Standard 3mm (T1) Package
- RoHS Compliant
- Water Clear Lens
- Available in Flange (F), Standard (Blank), and Shouldered (S) Lead Frame styles
- Up to 300 mcd Luminous Intensity at 20 mA
- Ideal for Back Lighting, Status Indication, and Display
- Recommended for Bivar Flexible Light Pipe assemblies

Bivar 3mm T1 Package Ultra Bright LED is ideal for those applications where intensive ambient lighting exists such as Back Lighting, Signage, and Sunlight Readable applications. Bivar offers water clear LED lens for maximum light output. The Flanged LED is ideal for Panel Mount Clip & Ring assemblies, the Standard Lead frame LED is ideal for vertical spacer assemblies without lead bends, and the Shouldered Lead frame LED has a built in strain relief feature which is ideal for Right Angle Holder assemblies that require lead bends. A long lead version is also available with a "-LL" suffix added to the part numbers.

Part Number	Material	Emitted Color	Peak. Wavelength λp(nm) TYP.	Lens Appearance	Viewing Angle	
3UOC-F		ORANGE		Water Clear	20°	
3UOC	AlGalnP		625nm	Water Clear	30°	
3UOC-S				Water Clear	30°	

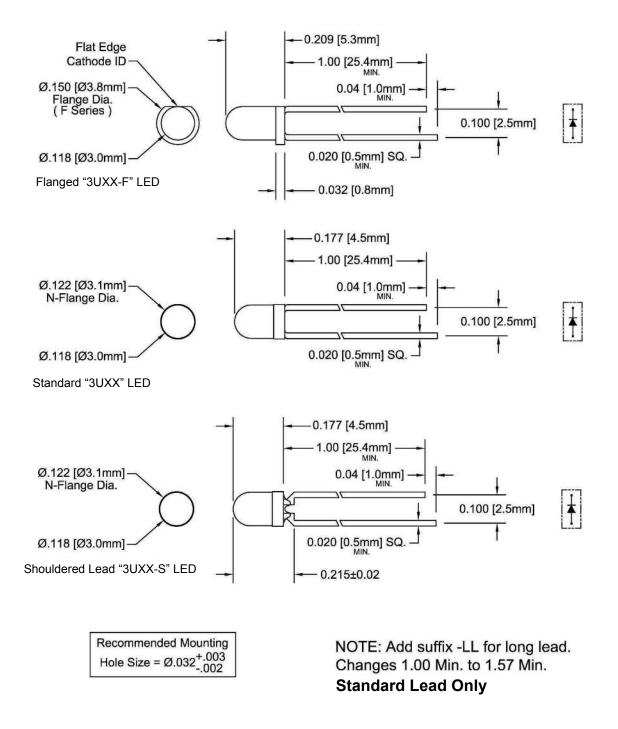
Part Number Designation







Outline Dimensions



- Outline Drawings Notes: 1. All dimensions are in inches [millimeters].
- Standard tolerance: ±0.010° unless otherwise noted.
 Tolerance of overall epoxy outline: ±0.020° unless otherwise noted.
 Epoxy meniscus may extend to 0.060° max.



Absolute Maximum Ratings

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

Power Dissipation	100 mW				
Forward Current (DC)	30 mA				
Peak Forward Current ¹	150 mA				
Reverse Voltage	5 V				
Operating Temperature Range	-25 ~ +85°C				
Storage Temperature Range	-30 ~ +100°C				
Lead Soldering Temperature (3 mm from the base of the epoxy bulb) ²	260°C				
Natar 4 40% Duty Quala Dulas Width < 0.4 mana					

Notes: 1. 10% Duty Cycle, Pulse Width \leq 0.1 msec. 2. Solder time less than 5 seconds at temperature extreme.

Electrical / Optical Characteristics

 $T_A = 25^{\circ}C \& I_F = 20 \text{ mA}$ unless otherwise noted

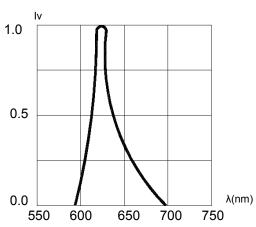
Part Number	Forward Voltage (V) ¹		Recommend Forward Current (mA)		Reverse Current (µA)	Dominant		Luminous Intensity Iv (mcd)			Viewing Angle 2 O ½ (deg)			
	MIN	TYP	MAX	MIN	TYP	MAX	MAX	MIN	TYP	MAX	MIN	TYP	MAX	TYP
3UOC-F								/	/	/	/	300	/	20
3UOC	/	1.8	2.4	/	20	/	100	/	/	/	/	300	/	30
3UOC-S								/	1	1	/	300	/	30

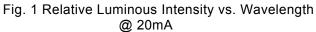
Notes: 1. Tolerance of forward voltage : ±0.05V. 2. Tolerance of dominant wavelength : ±1.0nm.



Typical Electrical / Optical Characteristics

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





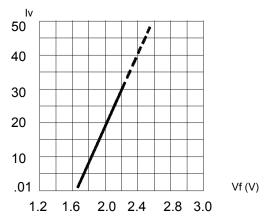
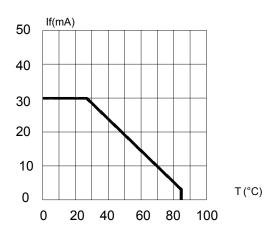
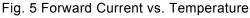
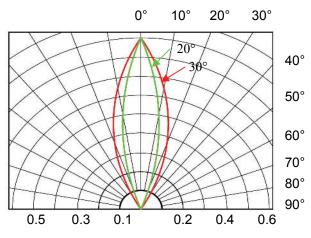


Fig. 3 Relative Intensity (10mA) vs. Forward Voltage









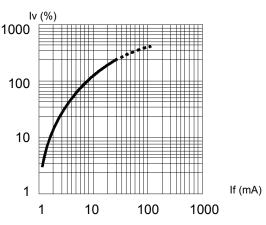


Fig. 4 Relative Luminous Intensity (%) vs. Forward Current

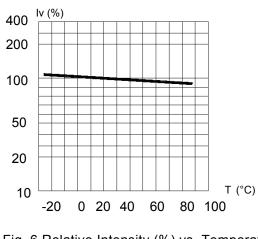
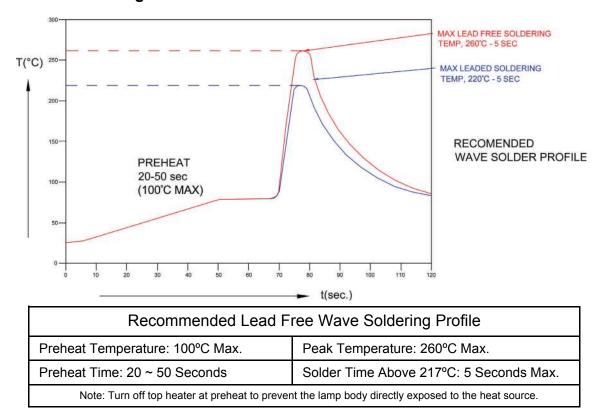


Fig. 6 Relative Intensity (%) vs. Temperature @ 20 mA



Recommended Soldering Conditions



Packaging and Labeling Plan

