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



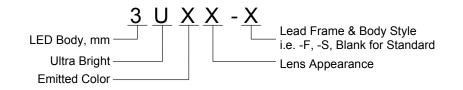
3SUYC-X

- Industry Standard 3mm (T1) Package
- RoHS Compliant
- Water Clear Lens
- Available in Flange (F), Standard (Blank), and Shouldered (S) Lead Frame styles
- Up to 400 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	
3SUYC-F		YELLOW		Water Clear	20°	
3SUYC	AlGalnP		590nm	Water Clear	30°	
3SUYC-S				Water Clear	30°	

Part Number Designation

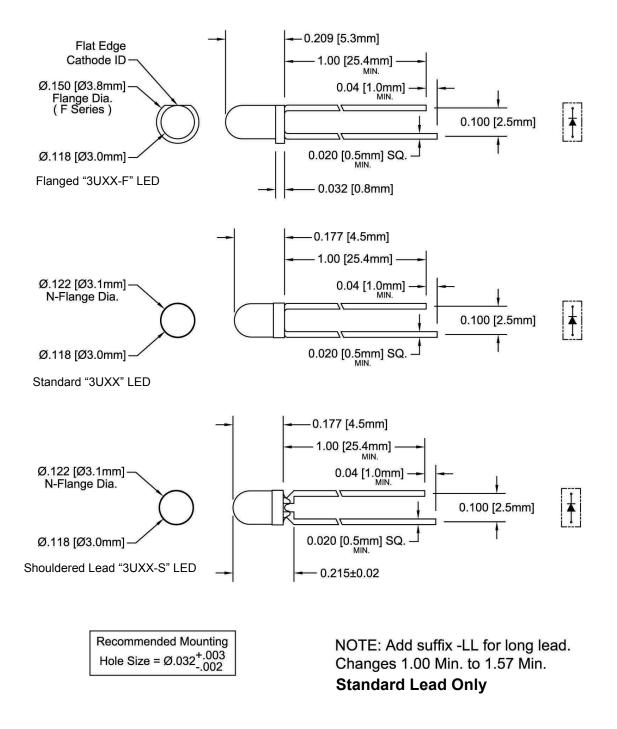




Bivar reserves the right to make changes at any time without notice.



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	85 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				
Nation 4, 40% Duty Quela Dulas Width < 0.4 mass					

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 Wavelength (nm) ²		Luminous Intensity Iv (mcd)			Viewing Angle 2 O ¹ / ₂ (deg)			
	MIN	TYP	MAX	MIN	TYP	MAX	MAX	MIN	TYP	MAX	MIN	TYP	MAX	TYP
3SUYC-F								/	/	/	/	400	/	20
3SUYC	/	2.0	2.4	/	20	/	100	/	/	/	/	400	/	30
3SUYC-S								/	/	/	/	400	/	30

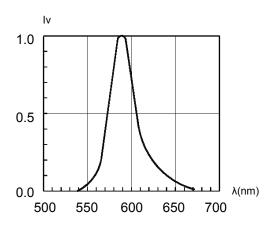
Notes: 1. Tolerance of forward voltage : ±0.05V. 2. Tolerance of dominant wavelength : ±1.0nm.

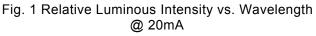
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Typical Electrical / Optical Characteristics

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





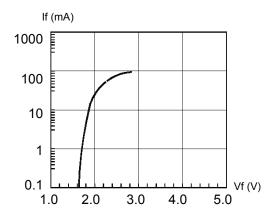
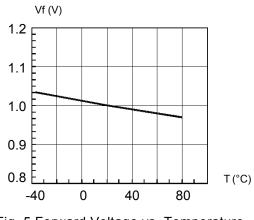
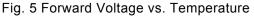


Fig. 3 Forward Current vs. Forward Voltage





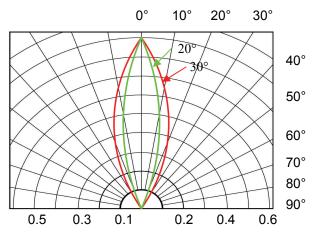


Fig. 2 Directivity Radiation Diagram

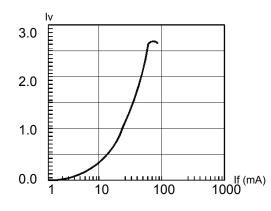
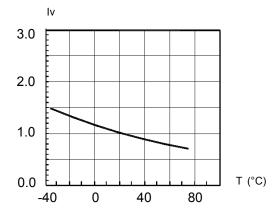
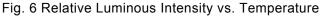


Fig. 4 Relative Luminous Intensity vs. Forward Current Normalize @ 20 mA

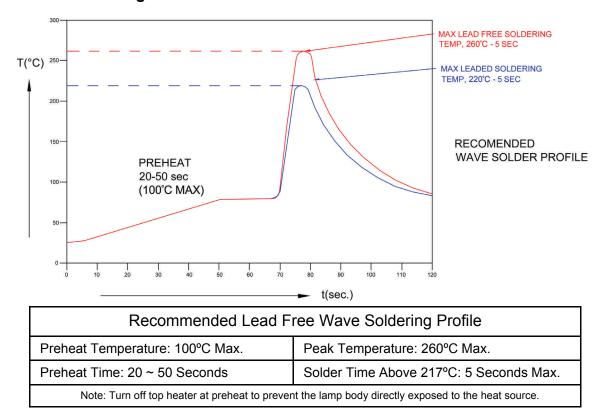




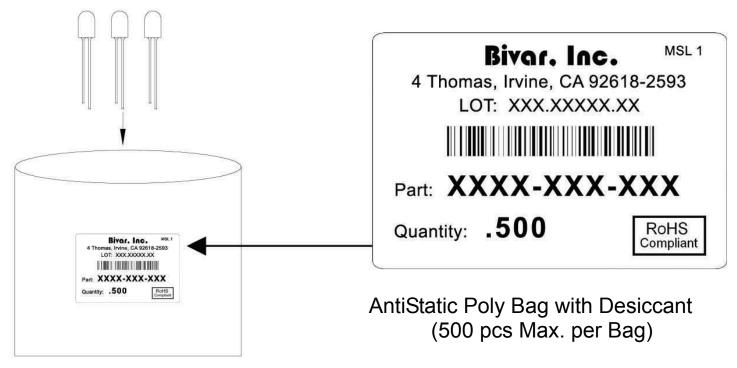
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Recommended Soldering Conditions



Packaging and Labeling Plan



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