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



3SUGC-X

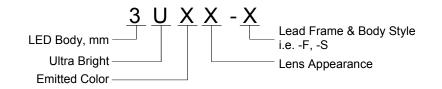
- Industry Standard 3mm (T1) Package
- RoHS Compliant
- Water Clear Lens
- Available in Flange (F) and Shouldered (S) Lead Frame styles
- Up to 300 mcd Luminous Intensity at 20 mA
- Ideal for Back Lighting, Status Indication, and Display
- Recommended for Bivar Flexible Light Pipe assemblies



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 Shouldered Lead frame LED is ideal for vertical spacer assemblies without lead bends and also has a built in strain relief feature which is ideal for right angle holder assemblies that require lead bends.

Part Number	Material	Emitted Color	Peak. Wavelength λp(nm) TYP.	Lens Appearance	Viewing Angle		
3SUGC-F	AlGaInP	GREEN	570nm	Water Clear	20°		
3SUGC-S	AlGainF	GREEN	5701111	Water Clear	30°		

Part Number Designation



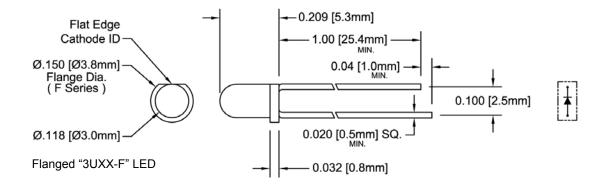


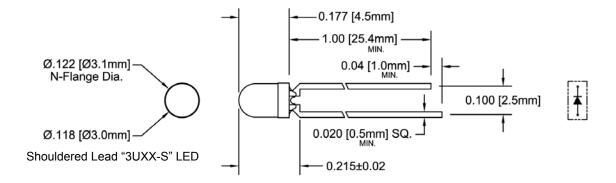
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Outline Dimensions





Recommended Mounting
Hole Size = $\emptyset.032^{+.003}_{002}$

Outline Drawings Notes:

- 1. All dimensions are in inches [millimeters].
- 2. Standard tolerance: ± 0.010 " unless otherwise noted.
- 3. Tolerance of overall epoxy outline: $\pm 0.020"$ unless otherwise noted. 4. Epoxy meniscus may extend to 0.060" max.

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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				
Nates 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 ½ (deg)			
	MIN	TYP	MAX	MIN	TYP	MAX	MAX	MIN	TYP	MAX	MIN	TYP	MAX	TYP
3SUGC-F	/	2.1 2.4	2.4	/	20	/	100	/	/	/	/	300	/	20
3SUGC-S			2.4					/	/	/	/	300	/	30

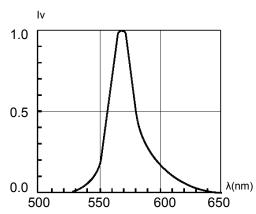
Notes: 1. Tolerance of forward voltage : ±0.05V. 2. Tolerance of dominant wavelength : ±1.0nm.

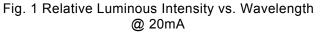
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Typical Electrical / Optical Characteristics

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





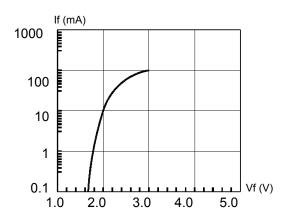
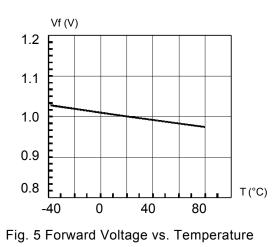


Fig. 3 Forward Current vs. Forward Voltage



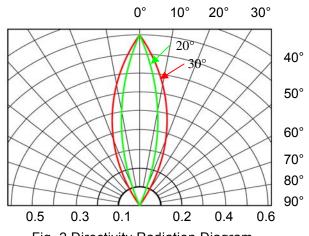


Fig. 2 Directivity Radiation Diagram

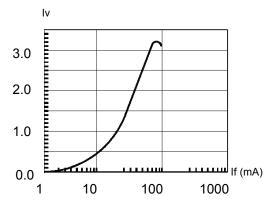
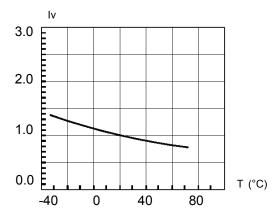
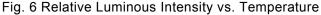


Fig. 4 Relative Luminous Intensity vs. Forward Current Normalize @ 20 mA

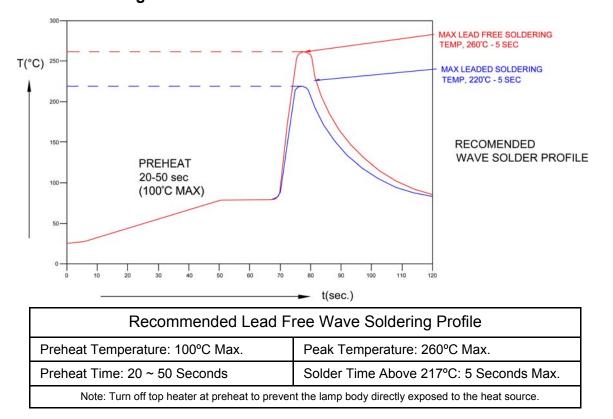




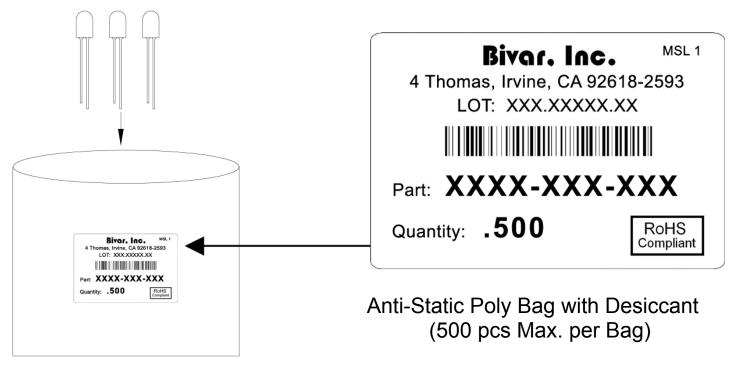
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Recommended Soldering Conditions



Packaging and Labeling Plan



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