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



#### 3SUOC-X

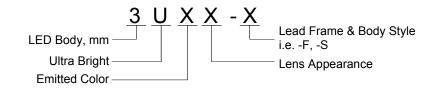
- Industry Standard 3mm (T1) Package
- RoHS Compliant
- Water Clear Lens
- Available in Flange (F) and Shouldered (S) Lead Frame styles
- Up to 400 mcd Luminous Intensity at 20 mA
- Ideal for Back Lighting, Status Indication, and Display
- Recommended for Bivar Flexible Light Pipe assemblies



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 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		
3SUOC-F	AlGaInP	ORANGE	625nm	Water Clear	20°		
3SUOC-S	AlGaine	ORANGE	0251111	Water Clear	30°		

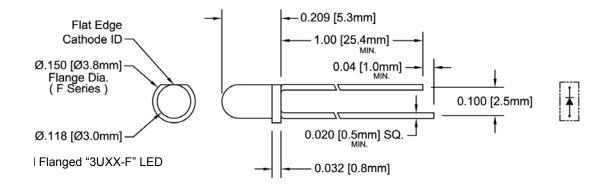
#### **Part Number Designation**

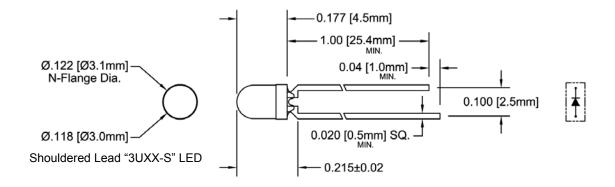






#### **Outline Dimensions**





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

Outline Drawings Notes:

1. All dimensions are in inches [millimeters].

2. Standard tolerance:  $\pm 0.010$ " unless otherwise noted.

3. Tolerance of overall epoxy outline: ±0.020" unless otherwise noted.

4. 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 <sup>1</sup>	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 ) <sup>2</sup>	260°C				
Notes 4, 40% Date Order Date With 40,4 message 0, October the last the Estimate of the sector of the					

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

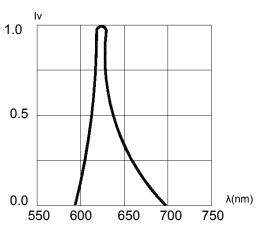
Part Number	Forward Voltage (V) <sup>1</sup>		Recommend Forward Current (mA)		Reverse Current (µA)	Dominant Wavelength (nm) <sup>2</sup>		Luminous Intensity Iv (mcd)			Viewing Angle 2 O <sup>1</sup> / <sub>2</sub> (deg)			
	MIN	TYP	MAX	MIN	TYP	MAX	MAX	MIN	TYP	MAX	MIN	TYP	MAX	ΤΥΡ
3SUOC-F	/	1.8 2.4	2.4	,	20	/	100	/	/	/	/	400	/	20
3SUOC-S			2.4	/				/	/	/	/	400	/	30

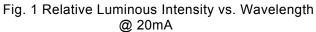
Notes: 1. Tolerance of forward voltage : ±0.05V. 2. Tolerance of dominant wavelength : ±1.0nm.



# **Typical Electrical / Optical Characteristics**

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





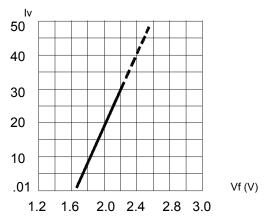
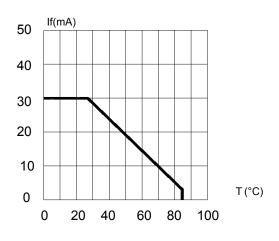
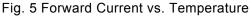
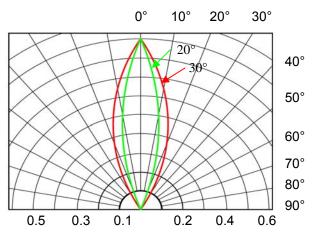


Fig. 3 Relative Intensity (10mA) vs. Forward Voltage









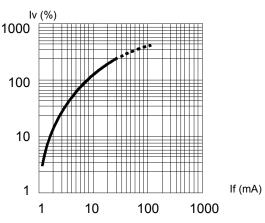
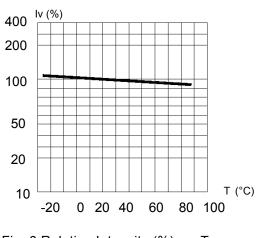
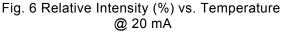


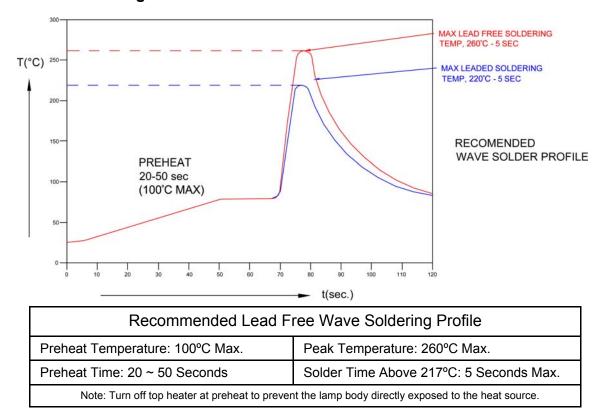
Fig. 4 Relative Luminous Intensity (%) vs. Forward Current



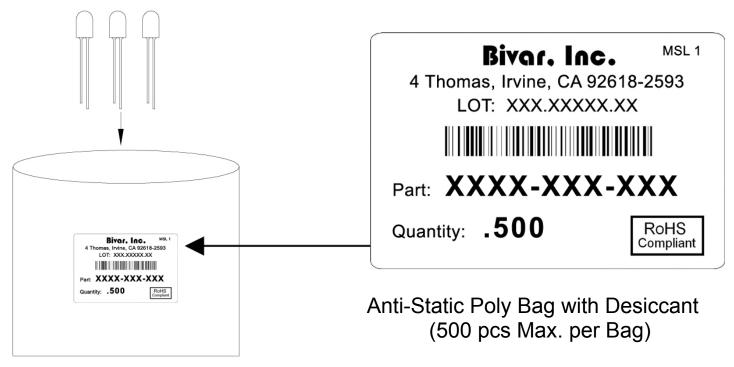




#### **Recommended Soldering Conditions**



#### Packaging and Labeling Plan



### **Mouser Electronics**

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

BIVAR:

<u>3SUOC-F</u> <u>3SUOC-S</u> <u>3UOC-F</u> <u>3UOC-S</u>