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

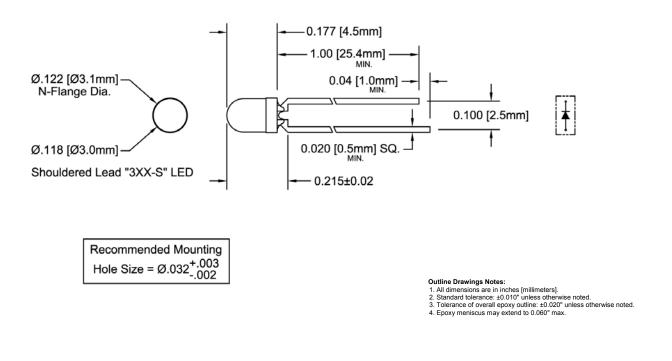


3UWC-0.6K

- Industry Standard 3mm (T1) Package
- RoHS Compliant
- Water Clear Lens
- Available in Shouldered Lead Frame
- Up to 1000 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 and 35° viewing angle. The Shouldered Lead frame LED has a built in strain relief feature which is ideal for right angle holder and vertical spacer assemblies. Low power consumption and great reliability are suitable for battery-operated applications.

Part Number	Material	Emitted Color	Chromaticity Coordinates	Lens Appearance	Viewing Angle		
3UWC-0.6K	InGaN	WHITE	X=.30 Y=.31	Water Clear	35°		





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



Absolute Maximum Ratings

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

Power Dissipation	70 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	ТҮР	MAX	TYP
3UWC-0.6K	/	3.2	3.8	/	20	/	100	/	/	/	/	1000	/	35

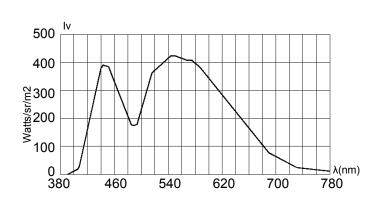
Notes: 1. Tolerance of forward voltage : ±0.05V. 2. Tolerance of dominant wavelength : ±1.0nm.

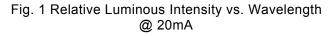
Bivar reserves the right to make changes at any time without notice.



Typical Electrical / Optical Characteristics

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





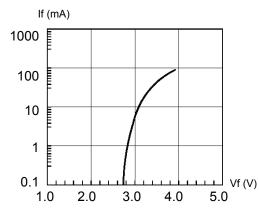
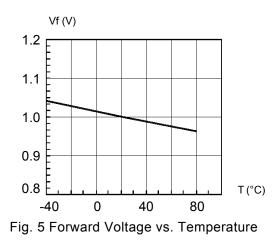


Fig. 3 Forward Current vs. Forward Voltage



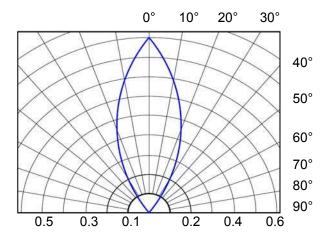


Fig. 2 Directivity Radiation Diagram

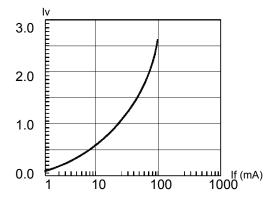
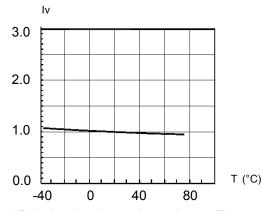
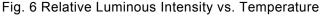


Fig. 4 Relative Luminous Intensity vs. Forward Current Normalize @ 20 mA

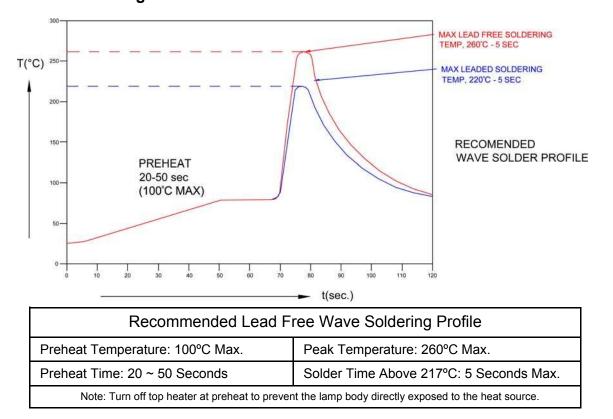




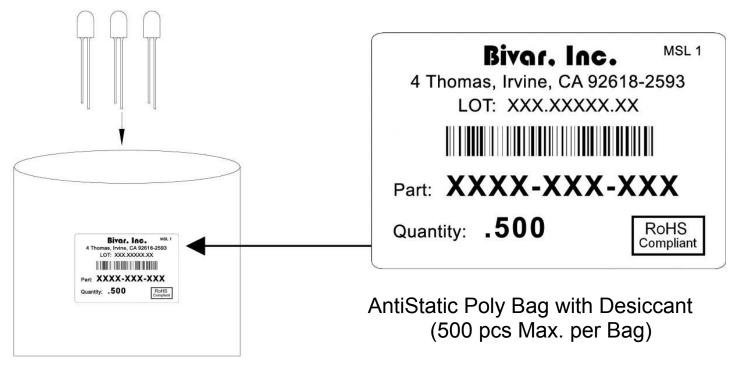
livar reserves the right to make changes at any time without notice.



Recommended Soldering Conditions



Packaging and Labeling Plan



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