5mm (T1 3/4) Package Discrete LED NEUTRAL WHITE



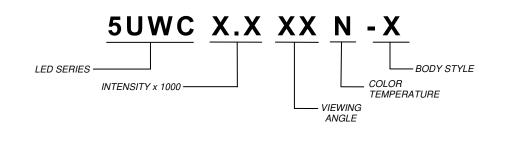
5UWCXX.XXXN-X

- Industry Standard 5mm (T1 3/4) Package
- RoHS Compliant
- Water Clear Lens
- 5000K Color Temperature
- Multiple Intensity and Viewing Angle Options
- Available in Flange and Standard LED Body styles
- Ideal for Status Indication and Display

Bivar's 5mm T1 3/4 Package 5UWC Series LED may be used in almost any application. They are offered in 6500K color temperature and come in multiple intensity, viewing angle, and body styles. Bivar offers a water clear LED lens for maximum light output. The Flange LED is ideal for Panel Mount Clip & Ring assemblies and the Standard LED is ideal for vertical spacer and holder assemblies.

Part Number	Material	Emitted Color	Color Temperature	Lens Appearance	Viewing Angle
5UWC16.025N-F	InGaN/Sapphire				25°
5UWC20.025N-F		WHITE	E000K	Water Clear	25°
5UWC16.030N			5000K	Water Clear	30°
5UWC20.030N					30°

Part Number Designation

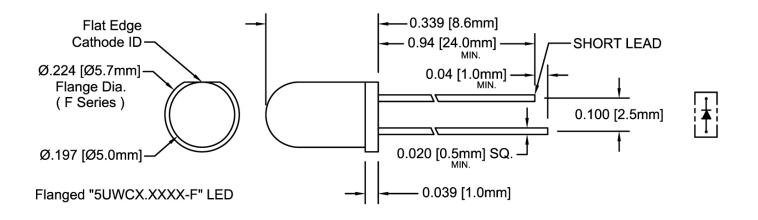


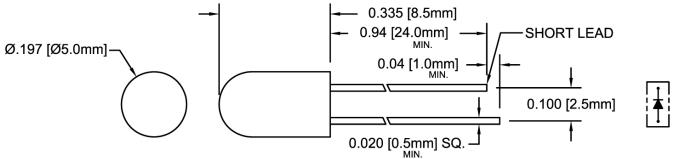




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Outline Dimensions





Standard "5UWCX.XXXX" LED

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: ±0.020" unless otherwise noted.

 4. Epoxy meniscus may extend to 0.060" max.



Absolute Maximum Ratings

 T_A = 25°C unless otherwise noted

Power Dissipation	120 mW
Forward Current (DC)	30 mA
Peak Forward Current ¹	100 mA
Reverse Voltage	5 V
Operating Temperature Range	-25 ~ +80°C
Storage Temperature Range	-30 ~ +80°C
Lead Soldering Temperature (3 mm from the base of the epoxy bulb) ²	260°C

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

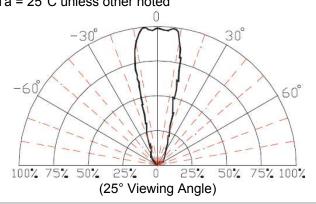
Electrical / Optical Characteristics

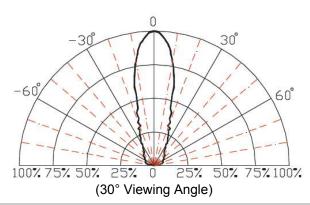
 $T_A = 25^{\circ}C \& I_F = 20 \text{ mA}$ unless otherwise noted

Part Number	Forward Voltage (V) ¹		Recommend Forward Current (mA)		Reverse Current (µA)	CCT (Kelvin)		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
5UWC16.025N-F	3.0	.0 3.4	3.8 /	,	20	/	10	/	5000	/	14000	16000	/	25
5UWC20.025N-F				/				/	5000	/	18000	20000	/	25
5UWC16.030N	3.0	0 3.4	3.8	/	20	/	10	/	5000	/	14000	16000	/	30
5UWC20.030N								/	5000	/	18000	20000	/	30

Notes: 1. Tolerance of forward voltage : ±0.05V.

Directivity Radiation — Relative Luminous Intensity vs. Radiation Angle Ta = 25°C unless other noted







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# **Typical Electrical / Optical Characteristics**

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

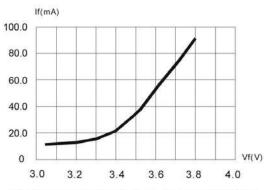


Fig.1 Forward Current vs. Forward Voltage

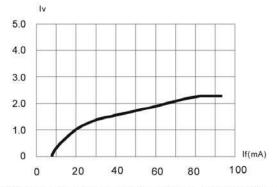


Fig.2 Relative Luminous Intensity vs. Forward Current

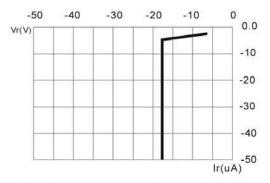
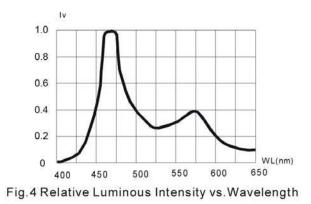
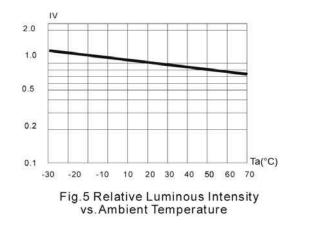
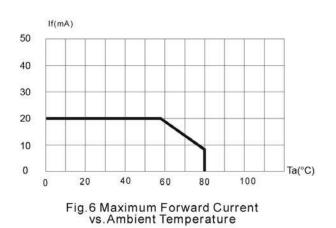


Fig. 3 Reverse Current vs. Reverse Voltage



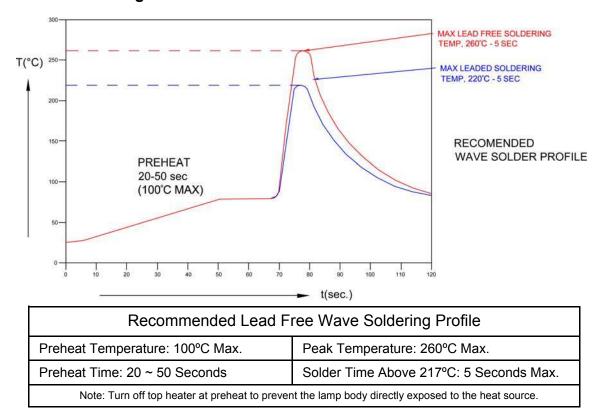




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### **Recommended Soldering Conditions**



### Packaging and Labeling Plan

