3mm (T1) Package Discrete LED GREEN, Low Current



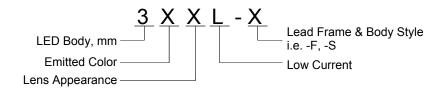
3GCL-<mark>X</mark>

- Industry Standard 3mm (T1) Package
- RoHS Compliant
- Water Clear Lens
- Available in Flange (F) and Shouldered (S) Lead Frame Styles
- 2 mA Low Operating Current
- Ideal for Status Indication and Display

Bivar 3mm T1 Package 2 mA Low Current LED is special binned at 2 mA and is ideal for those applications where lower power budget is required such as solar panel or battery-powered portable devices. 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		
3GCL-F	GaP/GaP	GREEN	568nm	Water Clear	20°		
3GCL-S	Gar/Gar	GREEN	5001111	Water Clear	30°		

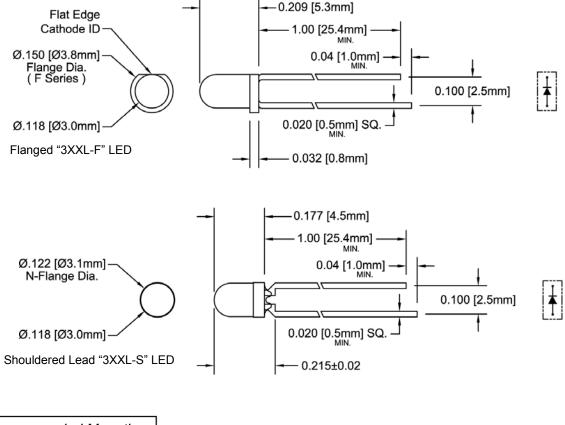
Part Number Designation







Outline Dimensions



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

Outline Drawings Notes:

- 1. All dimensions are in inches [millimeters].
- 2. Standard tolerance: ±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.

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

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Absolute Maximum Ratings

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

10 mW
7 mA
/ mA
5 V
-25 ~ +85°C
-30 ~ +100°C
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

 $T_A = 25^{\circ}C \& I_F = 2 \text{ mA}$ 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
3GCL-F	/	2.1 2.6	,	0	,	100	/	/	/	/	4	/	20
3GCL-S			2.0 /	1	/ 2	/	100	/	/	/	/	4	/

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

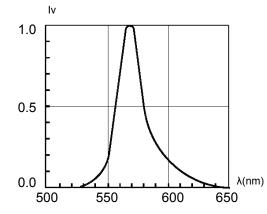
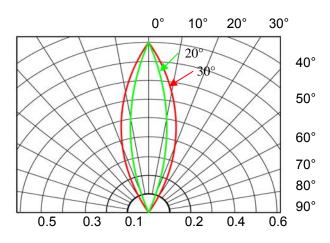
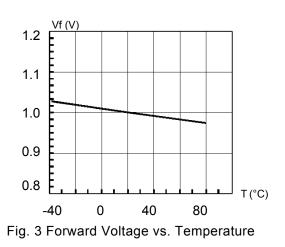
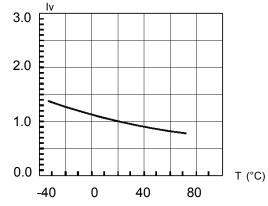


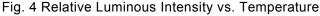
Fig. 1 Relative Luminous Intensity vs. Wavelength





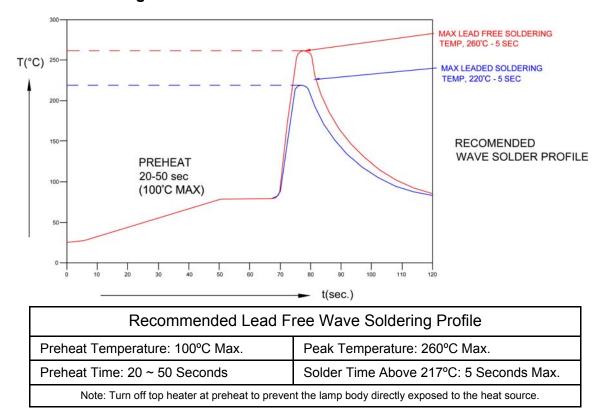








Recommended Soldering Conditions



Packaging and Labeling Plan

