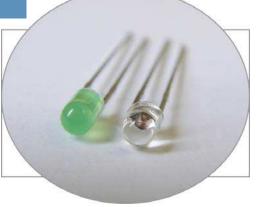
# 3mm (T1) Package Discrete LED GREEN, 12V



#### 3G<mark>X</mark>12V-<mark>X</mark>

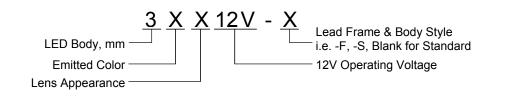
- Industry Standard 3mm (T1) Package
- RoHS Compliant
- Water Clear (C) and Diffused (D) Lenses
- Available in Flange (F), Standard (Blank), and Shouldered (S) Lead Frame styles
- 12V Operating Voltage
- Ideal for Status Indication and Display



Bivar 3mm T1 Package 12V LED is ideal for applications equipped with regular 12V power supplies such as servers and computer peripherals, and applications operated by 12V batteries such as automobiles and boats. Bivar offers water clear LED lens for maximum light output and diffused LED lens for uniform light output. The Flanged LED is ideal for Panel Mount Clip & Ring assemblies, the Standard Lead frame LED is ideal for vertical spacer assemblies without lead bends, and the Shouldered Lead frame LED 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
3GC12V-F				Water Clear	20°
3GD12V-F			500mm	Green Diffused	35°
3GC12V	GaP/GaP			Water Clear	30°
3GD12V	GaP/GaP	GREEN	568nm	Green Diffused	40°
3GC12V-S				Water Clear	30°
3GD12V-S				Green Diffused	40°

## **Part Number Designation**



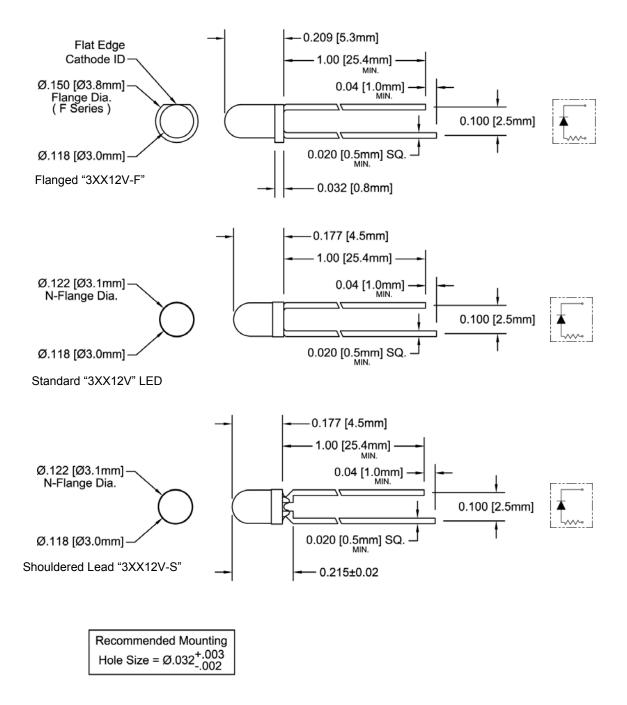


Bivar reserves the right to make changes at any time without notice.



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## **Outline Dimensions**



- Outline Drawings Notes: 1. All dimensions are in inches [millimeters].
- Standard tolerance: ±0.010° unless otherwise noted.
  Tolerance of overall epoxy outline: ±0.020° unless otherwise noted.
  Epoxy meniscus may extend to 0.060° max.



## Absolute Maximum Ratings

 $T_A$  = 25°C unless otherwise noted

Power Dissipation	/ mW
Forward Current ( DC )	10mA
Peak Forward Current <sup>1</sup>	12 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: 1. 10% Duty Cycle, Pulse Width  $\leq$  0.1 msec. 2. Solder time less than 5 seconds at temperature extreme.

#### **Electrical / Optical Characteristics**

 $T_A = 25^{\circ}C \& Vf = 12V$  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 ½ (deg)					
	MIN	TYP	MAX	MIN	TYP	MAX	MAX	MIN	TYP	MAX	MIN	TYP	MAX	TYP		
3GC12V-F	,	,	1	,	12	,	,	,	100	/	/	/	/	40	/	20
3GD12V-F	/	/	12	/	/	/	100	/	/	1	/	25	/	35		
3GC12V	/	/	12	/	/	/	100	/	/	/	/	40	/	30		
3GD12V								/	/	/	/	25	/	40		
3GC12V-S	/	/ /	12	/	/	/	100	/	/	/	/	40	/	30		
3GD12V-S								/	/	1	/	25	/	40		

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

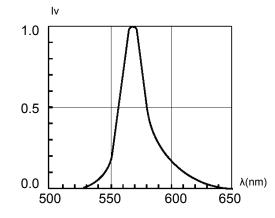


Fig. 1 Relative Luminous Intensity vs. Wavelength

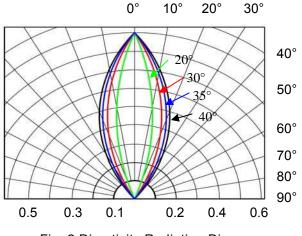


Fig. 2 Directivity Radiation Diagram

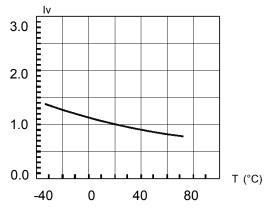
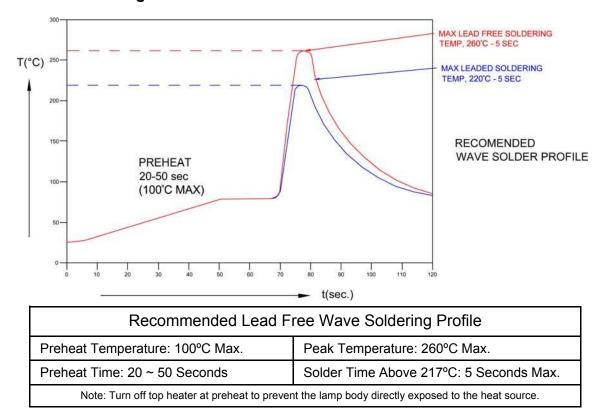


Fig. 3 Relative Luminous Intensity vs. Temperature

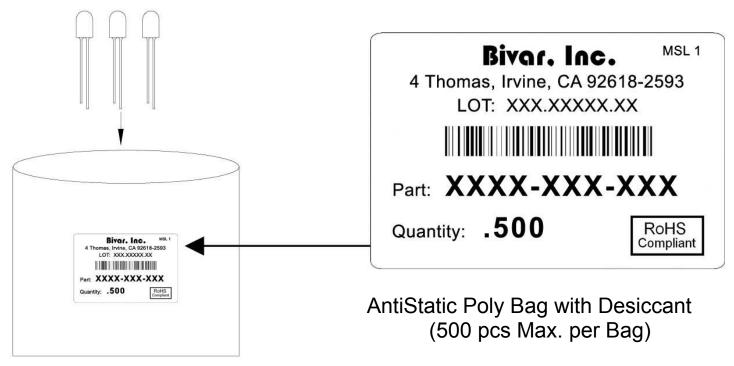
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#### **Recommended Soldering Conditions**



#### Packaging and Labeling Plan



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