

3H<mark>X</mark>5V-<mark>X</mark>

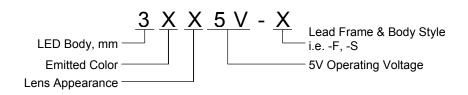
- Industry Standard 3mm (T1) Package
- RoHS Compliant
- Water Clear (C) and Diffused (D) Lenses
- Available in Flange (F) and Shouldered (S) Lead Frame styles
- 5V Operating Voltage
- Ideal for Status Indication and Display



Bivar 3mm T1 Package 5V LED is ideal for those applications equipped with regular 5V power supplies such as servers and computer peripherals. 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 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		
3HC5V-F		RED		Water Clear	20°		
3HD5V-F	GaAsP/GaP		625nm	Red Diffused	35°		
3HC5V-S				Water Clear	30°		
3HD5V-S				Red Diffused	40°		

Part Number Designation



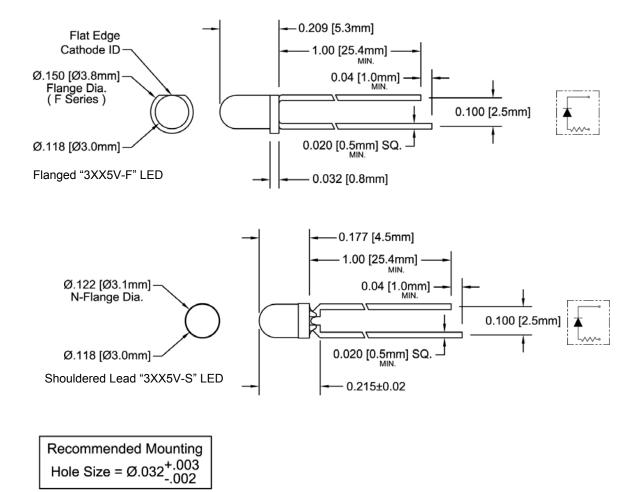


Bivar reserves the right to make changes at any time without notice.



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Outline Dimensions



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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.

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Absolute Maximum Ratings

 T_A = 25°C unless otherwise noted

/ mW
8 mA
12 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

 $T_A = 25^{\circ}C \& Vf = 5V$ 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	ТҮР	MAX	MIN	TYP	MAX	MAX	MIN	ΤΥΡ	MAX	MIN	ΤΥΡ	MAX	ΤΥΡ
3HC5V-F	/	/	5.0	/	/	/	100	/	/	/	/	50	/	20
3HD5V-F								/	/	/	/	30	/	35
3HC5V-S								/	/	/	/	50	/	30
3HD5V-S								/	/	/	/	30	/	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

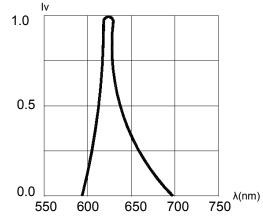


Fig. 1 Relative Luminous Intensity vs. Wavelength

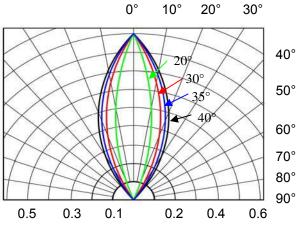


Fig. 2 Directivity Radiation Diagram

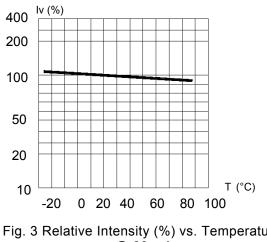
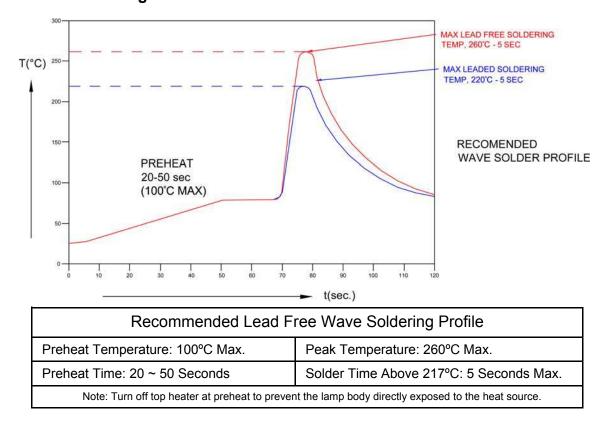


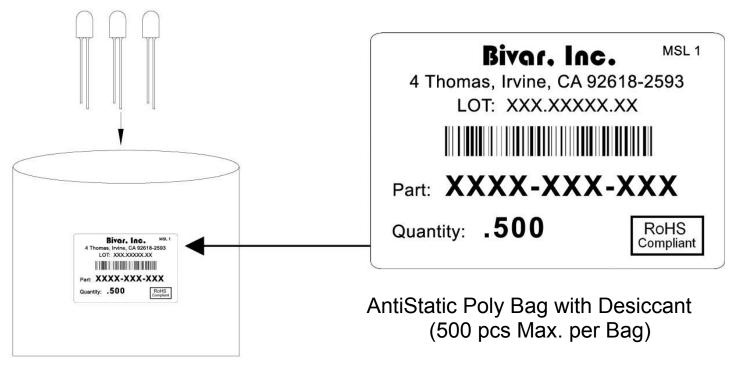
Fig. 3 Relative Intensity (%) vs. Temperature @ 20 mA



Recommended Soldering Conditions



Packaging and Labeling Plan



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