5mm (T1 ¾) Package Discrete LED



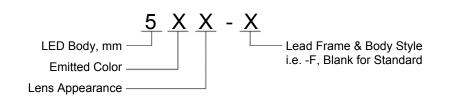
5H<mark>X</mark>-X

- Industry Standard 5mm (T1 ³/₄) Package
- RoHS Compliant
- Water Clear (C), Diffused (D), and Tinted (T) Lenses
- Available in Flange (F) and Standard (Blank) Lead Frame styles
- Ideal for Status Indication and Display

Bivar 5mm T1 ³⁄₄ Package LED may be used in almost any application. Bivar offers water clear LED lens for maximum light output, diffused LED lens for uniform light output, and tinted lens to identify the color of the LED. The Flange LED is ideal for Panel Mount Clip & Ring assemblies and the Standard Lead frame LED is ideal for vertical spacer assemblies without lead bends.

Part Number	Material	Emitted Color	Peak. Wavelength λp(nm) TYP.	Lens Appearance	Viewing Angle	
5HC-F		RED		Water Clear	35°	
5HD-F			625nm	Red Diffused	40°	
5HT-F				Red Tinted	35°	
5HC	GaAsP/GaP	RED		Water Clear	35°	
5HD				Red Diffused	45°	
5HT				Red Tinted	35°	

Part Number Designation

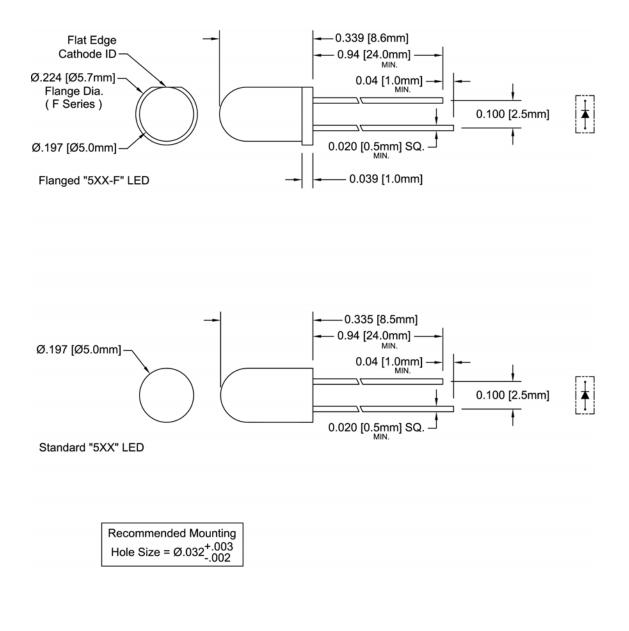




Bivar reserves the right to make changes at any time without notice.



Outline Dimensions



 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

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

Power Dissipation	80 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					
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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	TYP	MAX	TYP	
5HC-F						/	100	/	1	/	/	50	/	35
5HD-F	/	2.0	2.8	/	20			/	/	/	/	40	/	40
5HT-F								/	/	/	/	50	/	35
5HC	/ 2.		2.8 /		20	/	100	/	1	/	/	40	/	35
5HD		/ 2.0		/				/	/	/	/	25	/	45
5HT								/	1	/	/	40	/	35

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

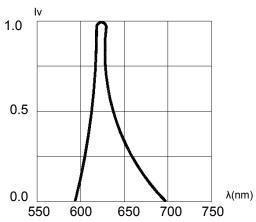
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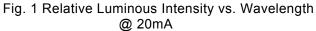
Bivar, Inc. — 4 Thomas, Irvine, California 92618, U.S.A. Phone: (949) 951-8808 Fax: (949) 951-3974 E-mail: bivar@bivar.com Web: www.bivar.com



Typical Electrical / Optical Characteristics

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





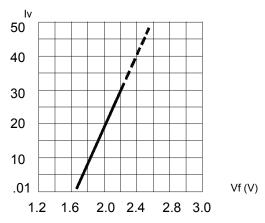
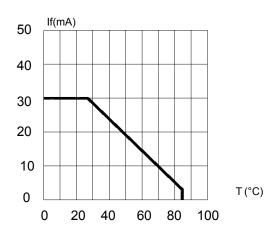
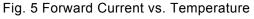
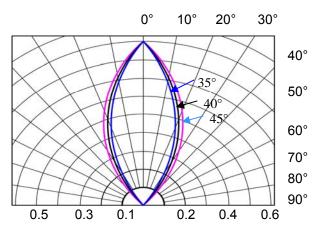


Fig. 3 Relative Intensity (10mA) vs. Forward Voltage









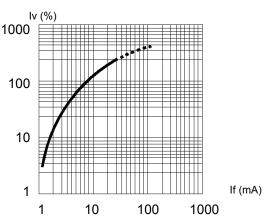
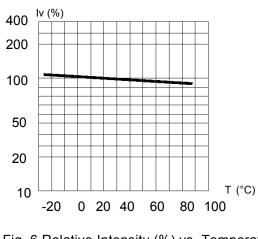
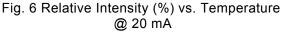


Fig. 4 Relative Luminous Intensity (%) vs. Forward Current

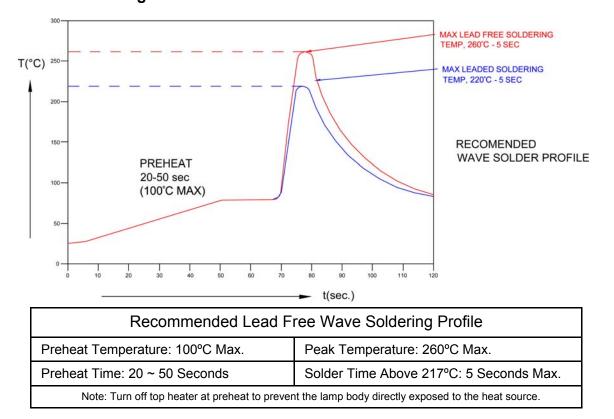




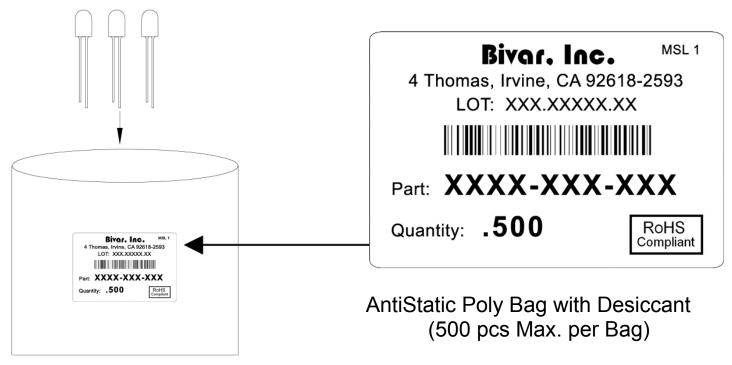
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Recommended Soldering Conditions



Packaging and Labeling Plan



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Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

BIVAR:

<u>5HC 5HC-F 5HD 5HD-F 5HT 5HT-F</u>