5mm (T1 ¾) Package Discrete LED



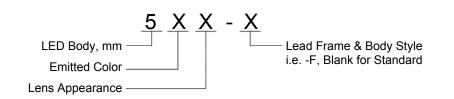
5R<mark>X</mark>-X

- 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	
5RC-F	GaP/GaP	RED		Water Clear	35°	
5RD-F			700nm	Red Diffused	40°	
5RT-F				Red Tinted	35°	
5RC		RED		Water Clear	35°	
5RD				Red Diffused	45°	
5RT				Red Tinted	35°	

Part Number Designation



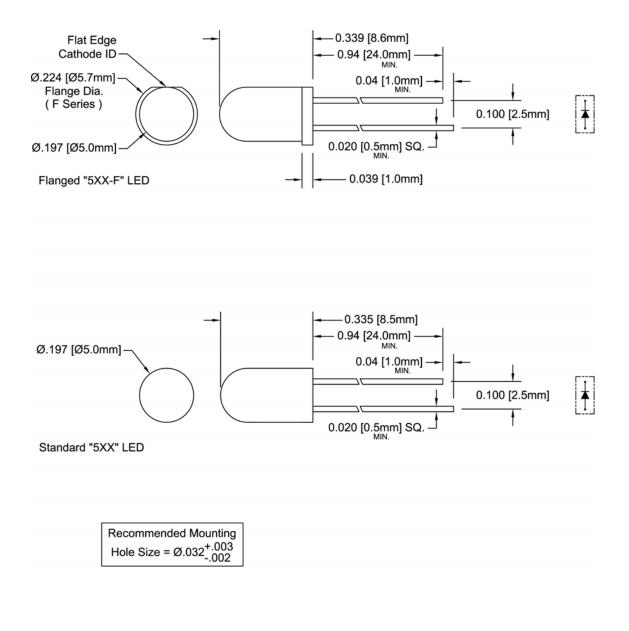


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Outline Dimensions



 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	45 mW					
Forward Current (DC)	20 mA					
Peak Forward Current ¹	80 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					
National 40% Data Orale Data With 204 manage 0. Oralder time last them 5 manual at theme and an term						

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	
5RC-F		2.1	2.8	/	20	/	100	/	1	/	/	2	/	35
5RD-F	/							/	/	/	/	1.5	/	40
5RT-F								/	/	/	/	2	/	35
5RC	/ 2.		2.8 /		20	/	100	/	1	/	/	2	/	35
5RD		/ 2.1		/				/	/	/	/	2	/	45
5RT								/	1	/	/	2	/	35

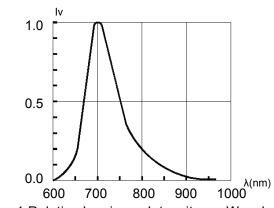
Notes: 1. Tolerance of forward voltage : ±0.05V. 2. Tolerance of dominant wavelength : ±1.0nm.

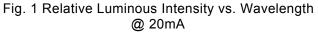
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Typical Electrical / Optical Characteristics

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





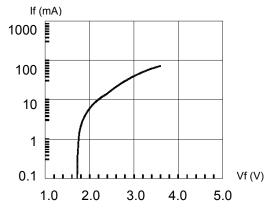
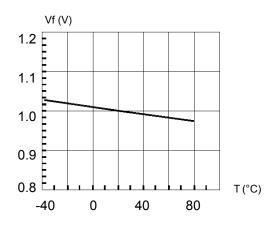


Fig. 3 Forward Current vs. Forward Voltage





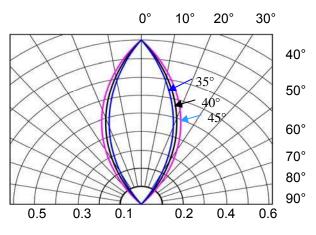


Fig. 2 Directivity Radiation Diagram

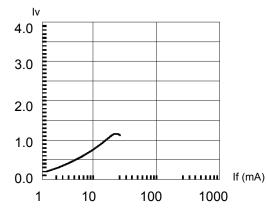
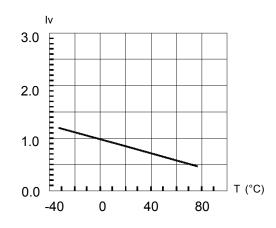
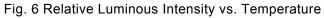


Fig. 4 Relative Luminous Intensity vs. Forward Current Normalize @ 20 mA

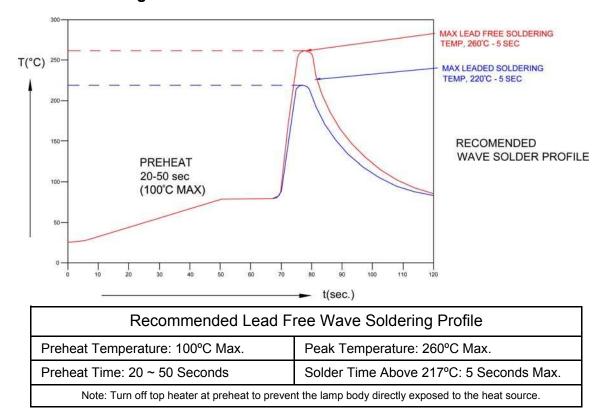




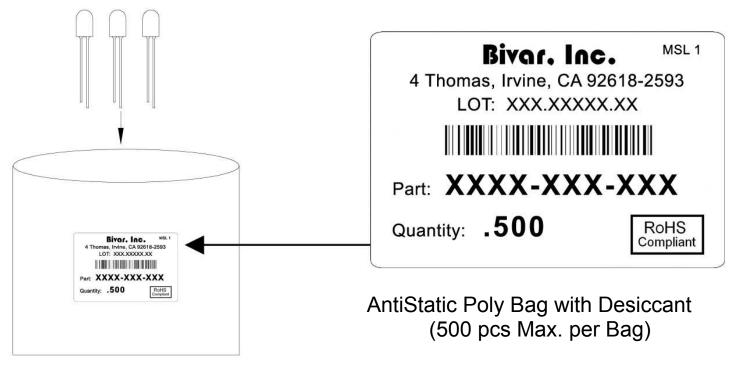
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Recommended Soldering Conditions



Packaging and Labeling Plan



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