5mm (T1 ³⁄₄) Package Discrete LED GREEN, Super Bright



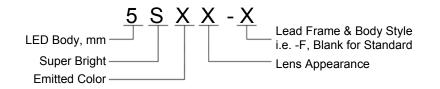
5SG<mark>X</mark>-X

- 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
- Up to 60 mcd Luminous Intensity at 20 mA
- Ideal for Status Indication and Display

Bivar 5mm T1 ³/₄ Package Super Bright LED is ideal for those applications where higher ambient lighting exists such as sign boards, security system displays, and medical applications. 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 Flanged 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
5SGC-F		GREEN	E COmer	Water Clear	35°
5SGD-F				Green Diffused	40°
5SGT-F				Green Tinted	35°
5SGC	GaP/GaP		568nm	Water Clear	35°
5SGD				Green Diffused	45°
5SGT				Green Tinted	35°

Part Number Designation





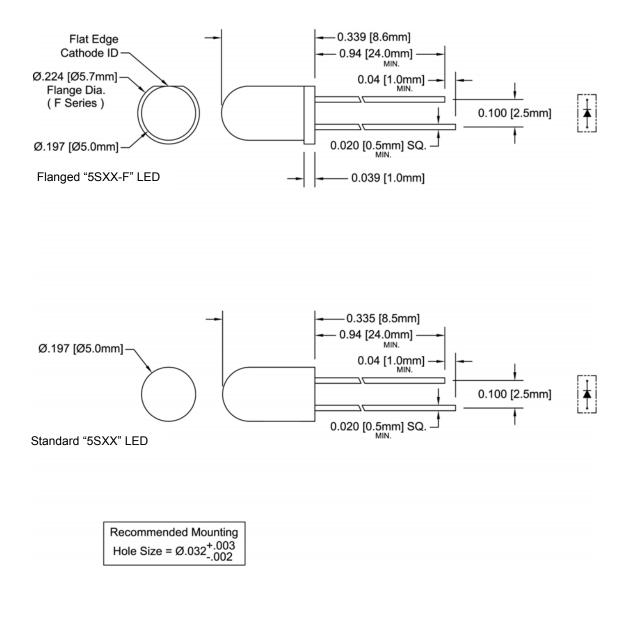
Bivar reserves the right to make changes at any time without notice.

5mm (T1 ³/₄) Package Discrete LED **GREEN**, Super Bright



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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°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				
Note: 1, 10% Duty Cycle, Dulas Width < 0.1 mass 2 , Solder time loss than 5 accords at temperature extreme					

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
5SGC-F		2.1		/	20	/	100	/	/	/	/	60	/	35
5SGD-F	/		2.8					/	/	/	/	50	/	40
5SGT-F								/	/	/	/	60	/	35
5SGC	/ 2.	/ 2.1	2.1 2.8 /		20	/	100	/	/	/	/	50	/	35
5SGD				/				/	/	/	/	30	/	45
5SGT								/	/	/	/	50	/	35

Notes: 1. Tolerance of forward voltage : ±0.05V. 2. To

2. Tolerance of dominant wavelength : ±1.0nm.

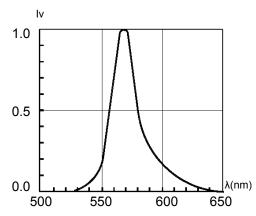
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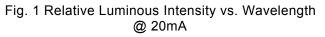
Bivar, Inc. — 4 Thomas, Irvine, California 92618, U.S.A. Phone: (949) 951-8808 Fax: (949) 951-3974 E-mail: bivar@bivar.com Web: www.bivar.com



Typical Electrical / Optical Characteristics

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





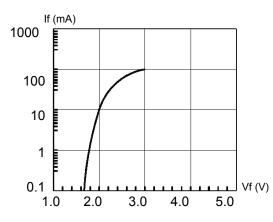
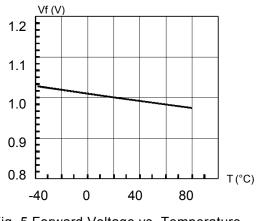


Fig. 3 Forward Current vs. Forward Voltage





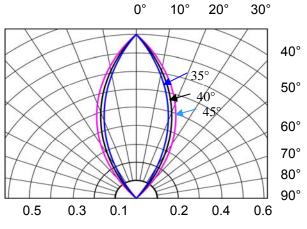


Fig. 2 Directivity Radiation Diagram

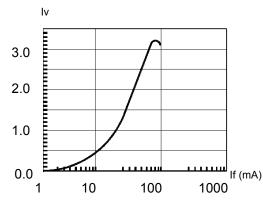


Fig. 4 Relative Luminous Intensity vs. Forward Current Normalize @ 20 mA

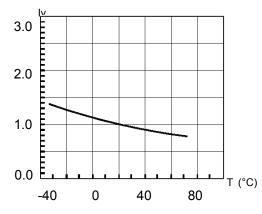
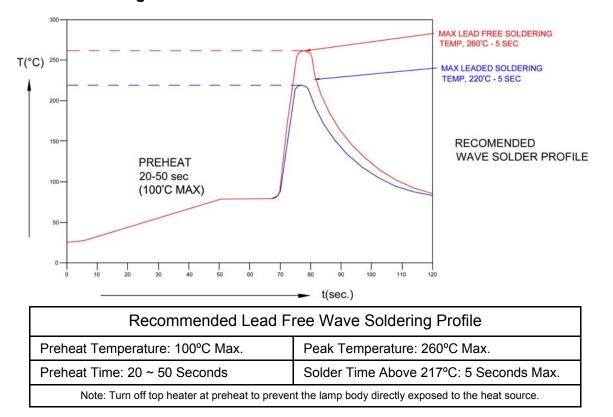


Fig. 6 Relative Luminous Intensity vs. Temperature

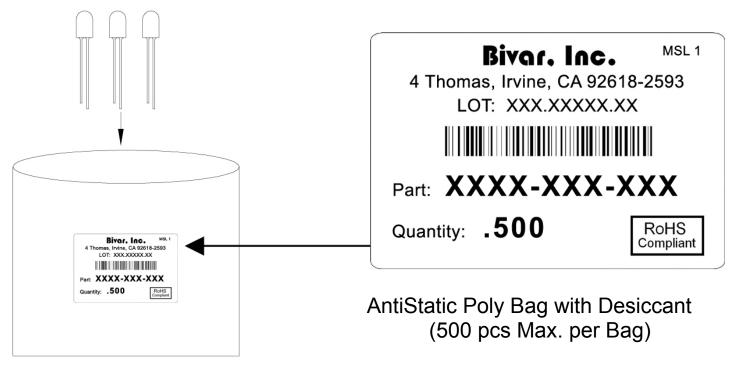
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Recommended Soldering Conditions



Packaging and Labeling Plan



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

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