5mm (T1 ¾) Package Discrete LED GREEN

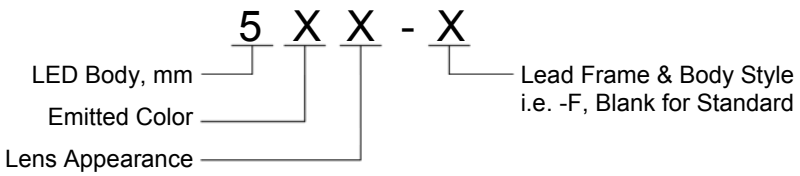
5GX-X

- **Industry Standard 5mm (T1 ¾) 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 ¾ 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
5GC-F	GaP/GaP	GREEN	568nm	Water Clear	35°
5GD-F				Green Diffused	40°
5GT-F				Green Tinted	35°
5GC				Water Clear	35°
5GD				Green Diffused	45°
5GT				Green Tinted	35°

Part Number Designation



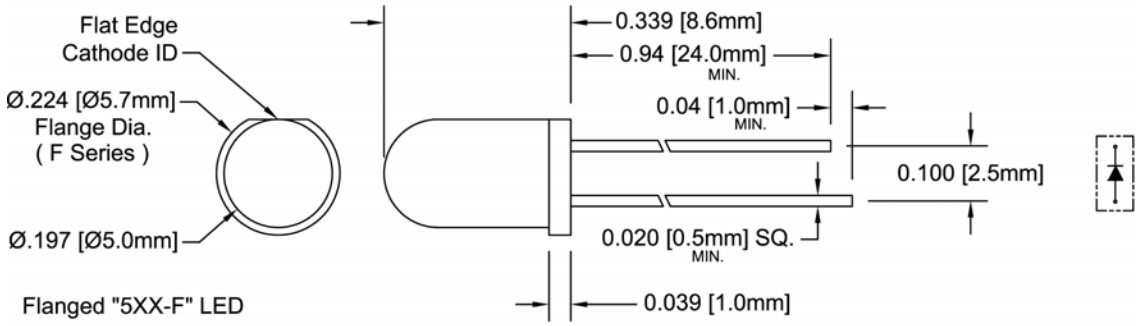
ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC SENSITIVE DEVICES

RoHS Compliant

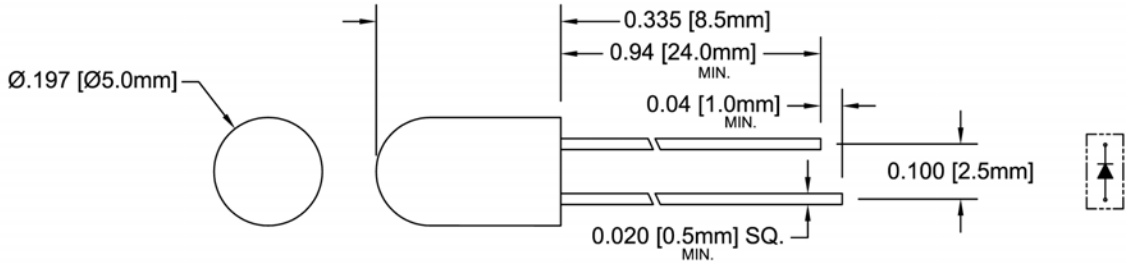
Moisture Sensitivity Levels 1

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

Outline Dimensions



Flanged "5XX-F" LED



Standard "5XX" LED

Recommended Mounting
Hole Size = $Ø.032^{+.003}_{-.002}$

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

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

Notes: 1. 10% Duty Cycle, Pulse Width ≤ 0.1 msec. 2. Solder time less than 5 seconds at temperature extreme.

Electrical / Optical Characteristics

T_A = 25°C & I_F = 20 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 Θ ½ (deg)
	MIN	TYP	MAX	MIN	TYP	MAX	MAX	MIN	TYP	MAX	MIN	TYP	MAX	TYP
5GC-F	/	2.1	2.8	/	20	/	100	/	/	/	/	40	/	35
5GD-F								/	/	/	/	25	/	40
5GT-F								/	/	/	/	40	/	35
5GC	/	2.1	2.8	/	20	/	100	/	/	/	/	40	/	35
5GD								/	/	/	/	25	/	45
5GT								/	/	/	/	40	/	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°C unless otherwise noted

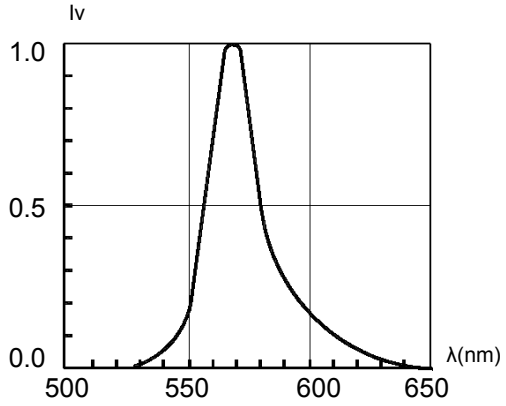

Fig. 1 Relative Luminous Intensity vs. Wavelength @ 20mA

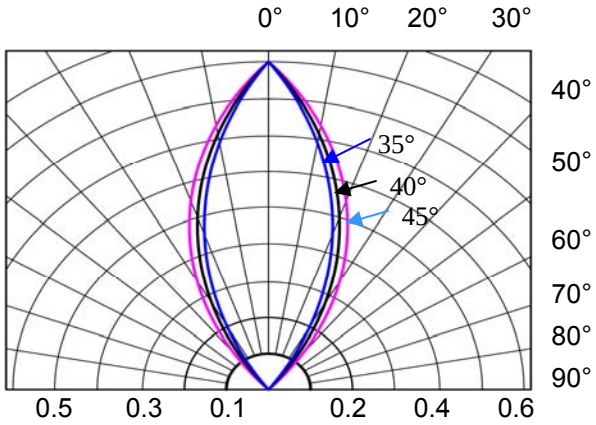

Fig. 2 Directivity Radiation Diagram

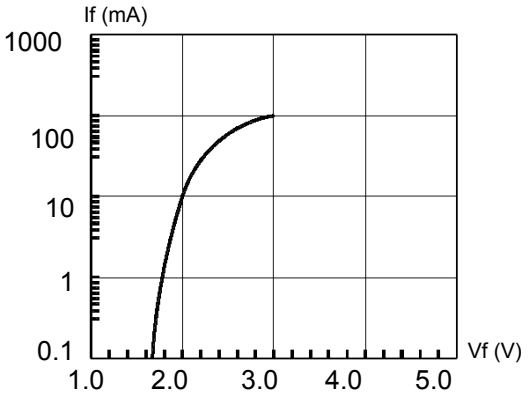

Fig. 3 Forward Current vs. Forward Voltage

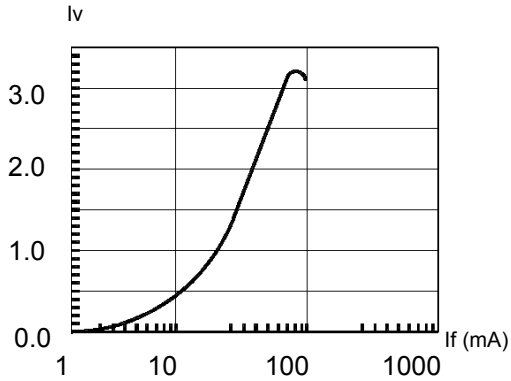

Fig. 4 Relative Luminous Intensity vs. Forward Current Normalize @ 20 mA

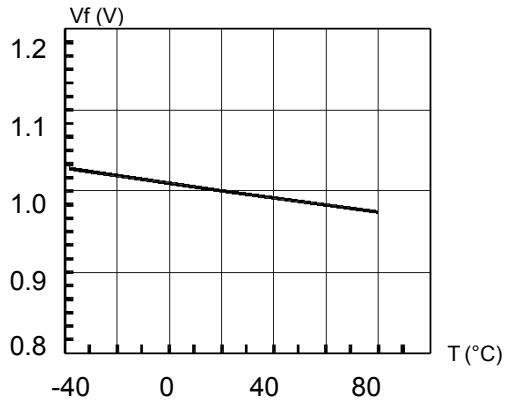

Fig. 5 Forward Voltage vs. Temperature

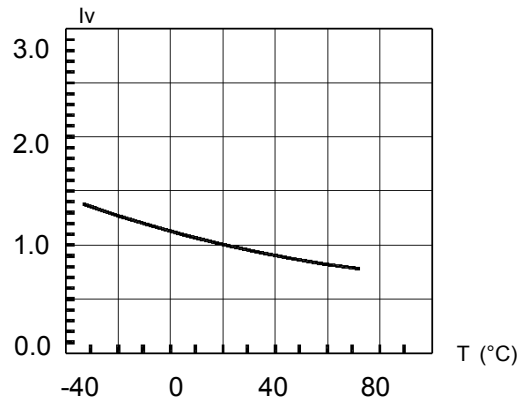

Fig. 6 Relative Luminous Intensity vs. Temperature

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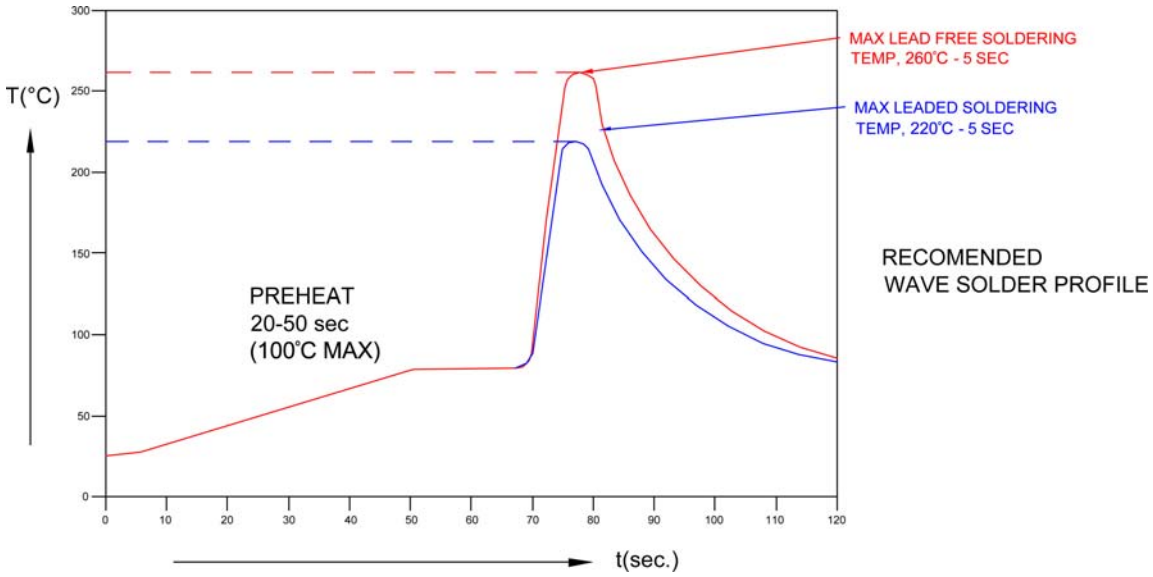
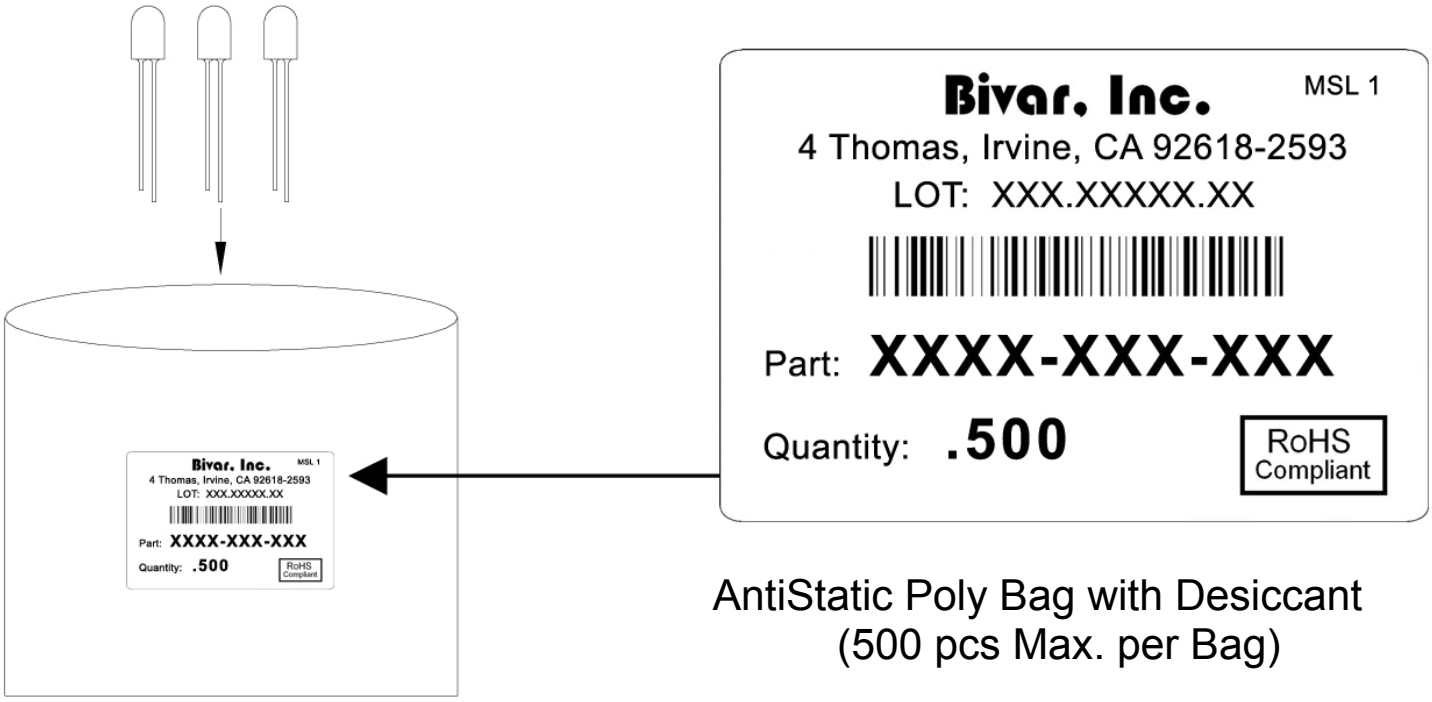
Recommended Soldering Conditions



Recommended Lead Free Wave Soldering Profile	
Preheat Temperature: 100ºC Max.	Peak Temperature: 260ºC Max.
Preheat Time: 20 ~ 50 Seconds	Solder Time Above 217ºC: 5 Seconds Max.
Note: Turn off top heater at preheat to prevent the lamp body directly exposed to the heat source.	

Packaging and Labeling Plan



AntiStatic Poly Bag with Desiccant
(500 pcs Max. per Bag)