5mm (T1 ¾) Package Discrete LED YELLOW/GREEN, Bi-Color

5BC-3-Y/G-CA-X

- **Industry Standard 5mm (T1 ¾) Package**
- **RoHS Compliant**
- **White Diffused Lens**
- **Available in Flange (F) Lead Frame styles**
- **3-Lead Bi-Color LED**
- **Ideal for Status Indication and Display**



Bivar 5mm T1 ¾ Package Tri-Color LED is ideal for those applications where multiple signals need to be displayed at the same location such as standby-on indication for server or computer peripherals. When needed, the 3rd color signal could be created by powering up both chips together for on-off-standy applications that require three distinct signals. Bivar offers white diffused LED lens for uniform light output. The Flange LED is ideal for Panel Mount Clip & Ring assemblies. This 3-Lead Bi-Color LED package comes in a common anode Lead Frame configuration.

Part Number	Material	Emitted Color	Peak. Wavelength λp(nm) TYP.	Lens Appearance	Viewing Angle
5BC-3-Y/G-CA-F	GaAsP	YELLOW	585nm	White Diffused	40°
	GaP	GREEN	565nm		

Part Number Designation

5 B C - 3 - X X - X X - X

- LED Body, mm
- Bi-Color
- Tri-Lead
- Emitted Colors, i.e. Y/G, " " for R/G
- Common Anode, CA
- Common Cathode, " "
- Lead Frame & Body Style i.e. –F for Flanged

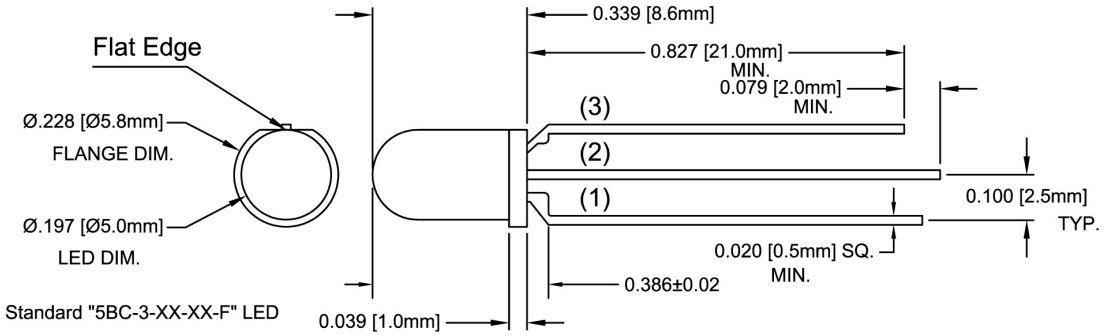
ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC SENSITIVE DEVICES

RoHS Compliant

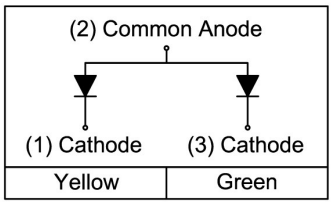
Moisture Sensitivity Levels 1

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

Outline Dimensions



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	70 mW
Forward Current (DC)	20 mA
Peak Forward Current [1]	100 mA
Operating Temperature Range	-4 ~ +85°C
Storage Temperature Range	-40 ~ +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	Emitted Color	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
5BC-3-Y/G-CA-F	Yellow	1.7	2.1	2.4	/	20	/	10	585	590	595	1	3	/	40
	Green	1.7	2.2	2.4					565	570	575	2	4	/	

Notes: 1. Tolerance of forward voltage : ±0.05V. 2. Tolerance of dominant wavelength : -1.0nm of MIN and +1.0nm of MAX.

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Typical Electrical / Optical Characteristics/ Yellow

T_A = 25°C unless otherwise noted

Fig1.Forward Current vs.Forward Voltage

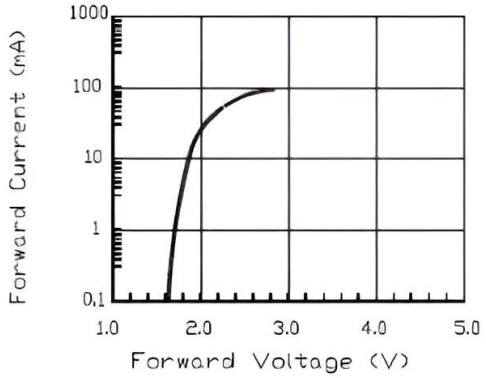


Fig2.Relative Intensity vs. Forward Current

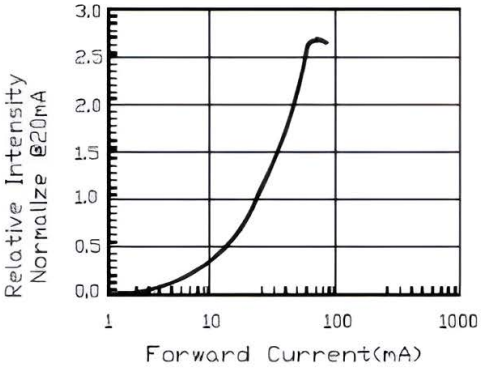


Fig3.Forward Voltage vs. Temperature

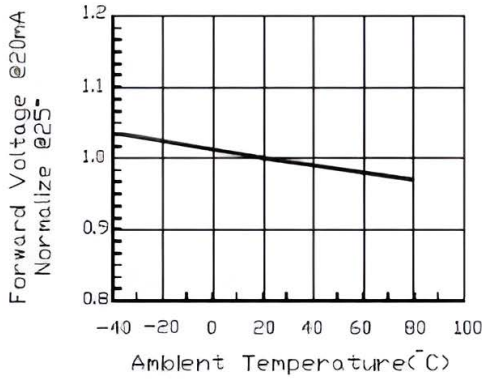


Fig4.Relative Intensity vs. Temperature

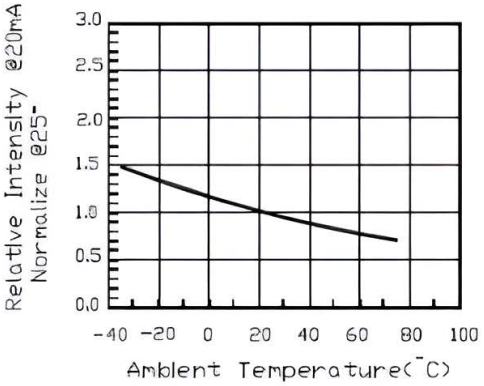
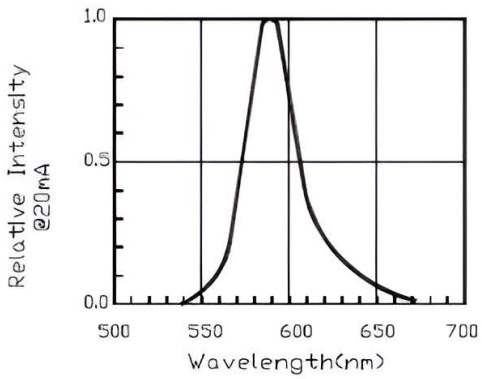
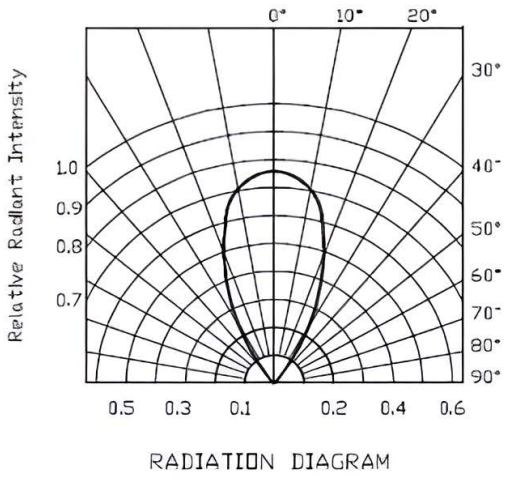


Fig5.Relative Intensity vs. Wavelength



Radiation Diagram Ta=25°C



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Typical Electrical / Optical Characteristics/ Green

T_A = 25°C unless otherwise noted

Fig1.Forward Current vs.Forward Voltage

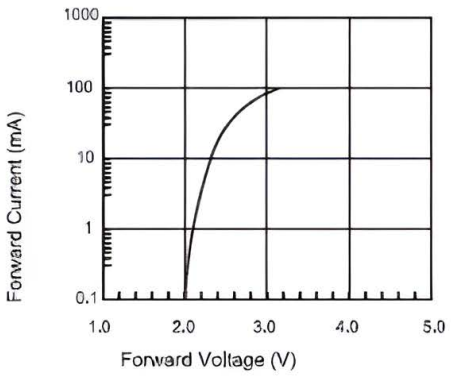


Fig2.Relative Intensity vs. Forward Current

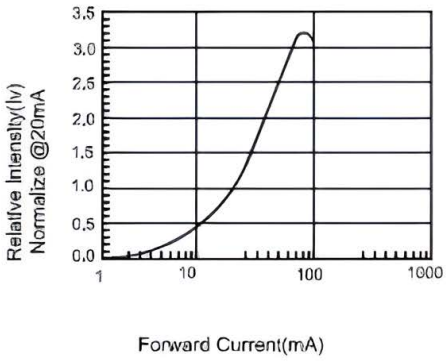


Fig3.Forward Voltage vs. Temperature

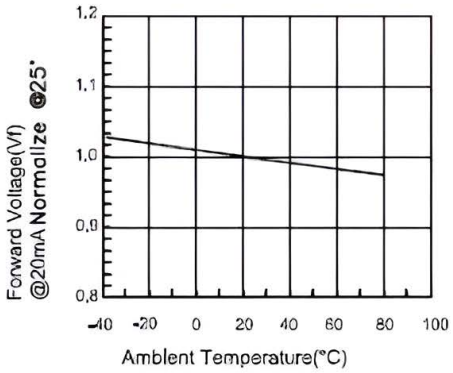


Fig4.Relative Intensity vs. Temperature

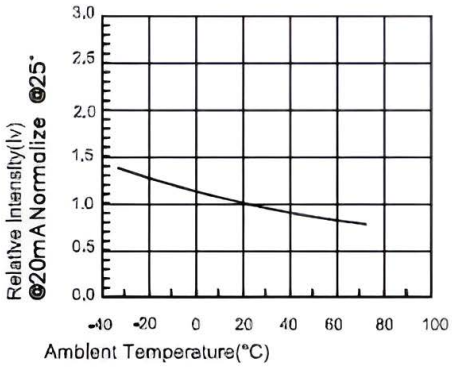
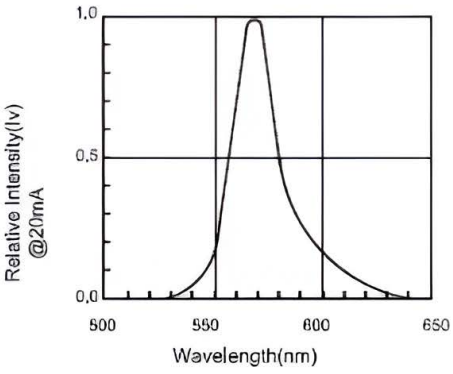
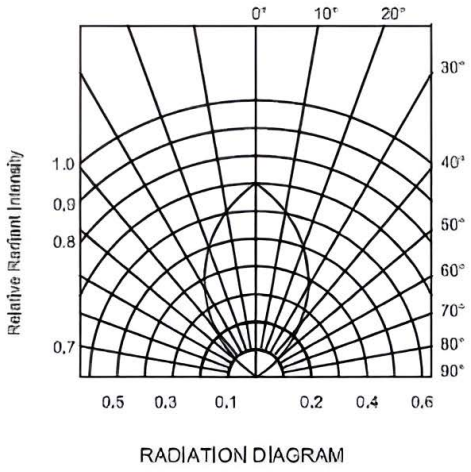


Fig5.Relative Intensity vs. Wavelength

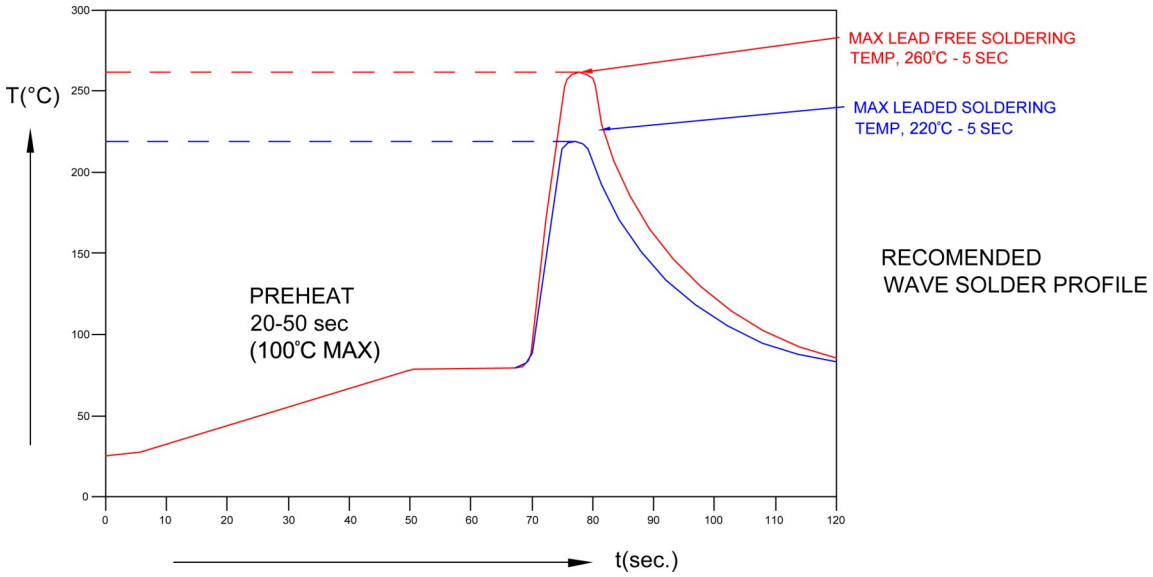


Radiation Diagram Ta=25°C



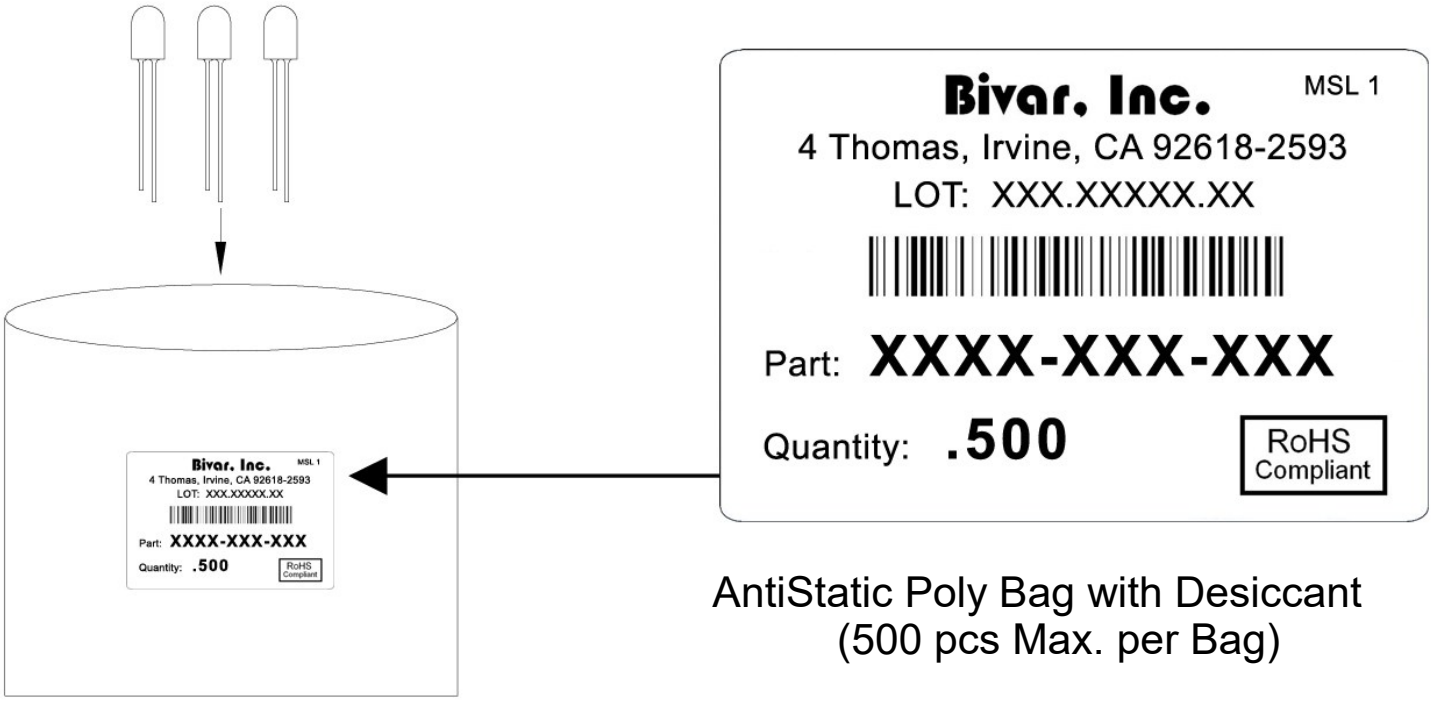
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Recommended Soldering Conditions



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)

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