

3mm (T1) Package Discrete LED AMBER/GREEN, Bi-Color

BIVAR

3BC-A/G-X

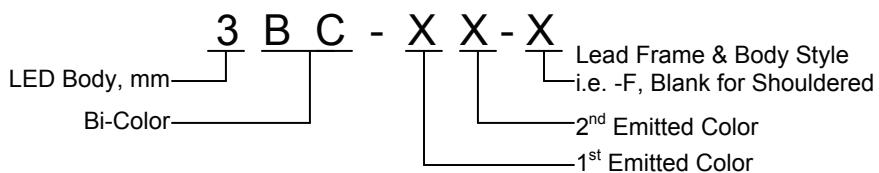
- ◆ Industry Standard 3mm (T1) Package
- ◆ RoHS Compliant
- ◆ White Diffused Lens
- ◆ Available in Flange (F) and Shouldered (Blank) Lead Frame styles
- ◆ 2-Lead Bi-Color LED
- ◆ Ideal for Status Indication and Display



Bivar 3mm T1 Package 2-Lead Bi-Color LED is ideal for those applications where dual signals need to be displayed at the same location such as standby-on indication for server or computer peripherals. Bivar offers white diffused LED lens for uniform light output and the 2-lead package simplifies the circuitry design where a reverse voltage is available. The Flanged LED is ideal for Panel Mount Clip & Ring assemblies and the Shouldered Lead frame LED has a built in strain relief feature which is ideal for Right Angle Holder assemblies that require lead bends. A long lead version is also available with a “-LL” suffix added to the part numbers.

Part Number	Material	Emitted Color	Peak. Wavelength $\lambda_{p}(\text{nm})$ TYP.	Lens Appearance	Viewing Angle
3BC-A/G-F	GaAsP/GaP	AMBER	605nm	White Diffused	45°
	GaP/GaP	GREEN	568nm		
3BC-A/G	GaAsP/GaP	AMBER	605nm		
	GaP/GaP	GREEN	568nm		

Part Number Designation

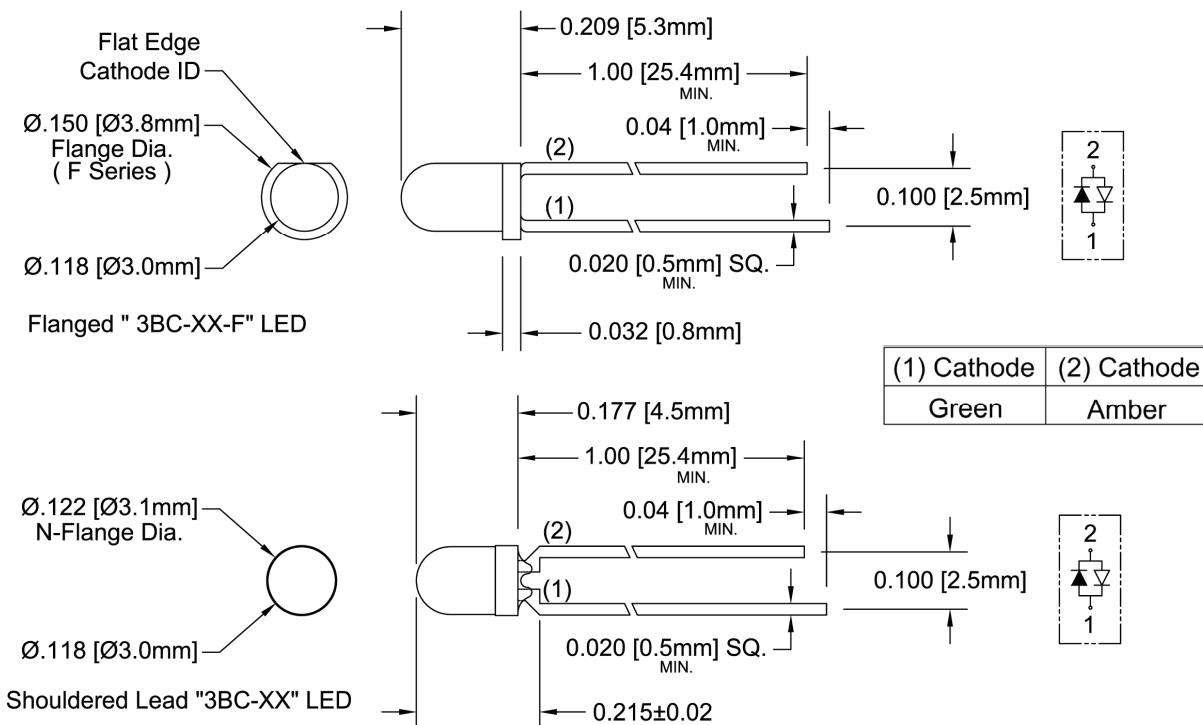


Bivar reserves the right to make changes at any time without notice.

3mm (T1) Package Discrete LED AMBER/GREEN, Bi-Color

BIVAR

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.

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

.....

Absolute Maximum Ratings

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

Power Dissipation	80 mW
Forward Current (DC)	30 mA
Peak Forward Current ¹	150 mA
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

$T_A = 25^\circ\text{C}$ & $I_F = 20$ 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 I_v (mcd)			Viewing Angle $2\Theta \frac{1}{2}$ (deg)
		MIN	TYP	MAX	MIN	TYP	MAX		MIN	TYP	MAX	MIN	TYP	MAX	
3BC-A/G-F	Amber	/	2.0	2.8	/	20	/	/	/	/	/	/	6	/	45
	Green	/	2.1	2.8					/	/	/	/	6	/	
3BC-A/G	Amber	/	2.0	2.8	/	20	/	/	/	/	/	/	6	/	45
	Green	/	2.1	2.8					/	/	/	/	6	/	

Notes: 1. Tolerance of forward voltage : $\pm 0.05\text{V}$. 2. Tolerance of dominant wavelength : $\pm 1.0\text{nm}$.

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

Typical Electrical / Optical Characteristics

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

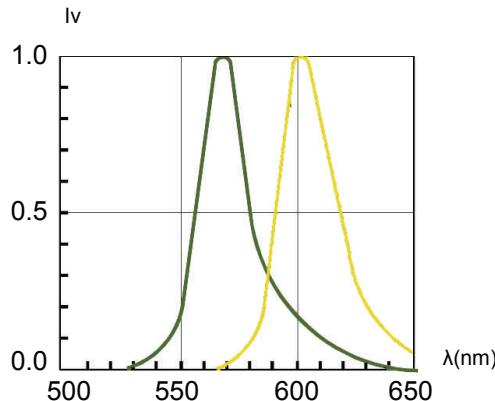


Fig. 1 Relative Luminous Intensity vs. Wavelength
@ 20mA

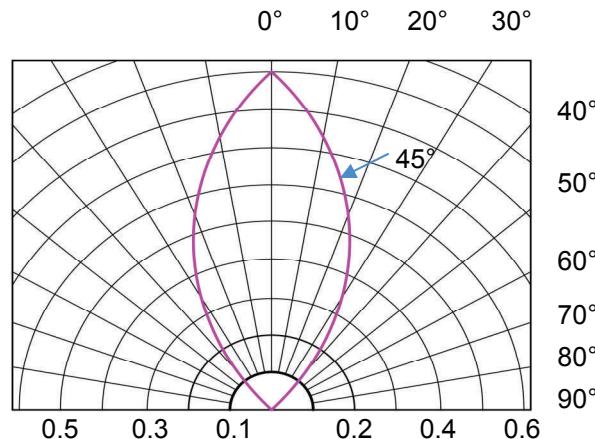


Fig. 2 Directivity Radiation Diagram

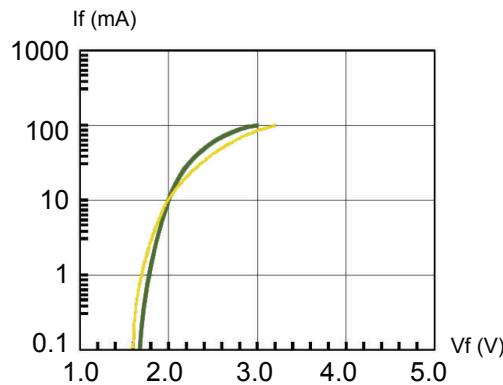


Fig. 3 Forward Current vs. Forward Voltage

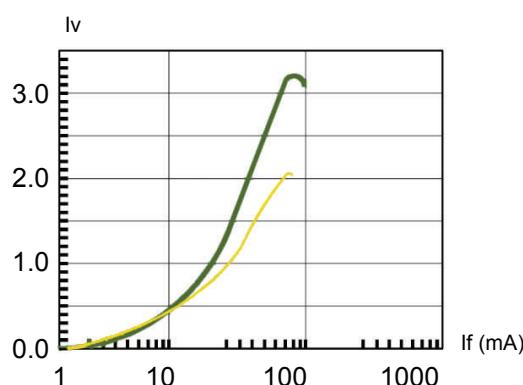


Fig. 4 Relative Luminous Intensity vs. Forward Current
Normalize @ 20 mA

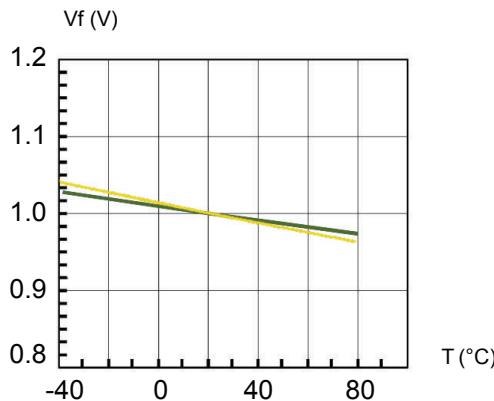


Fig. 5 Forward Voltage vs. Temperature

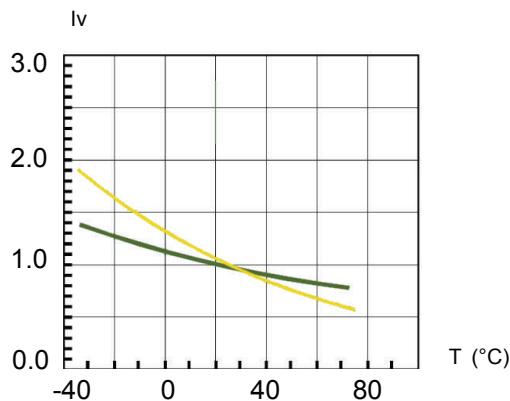


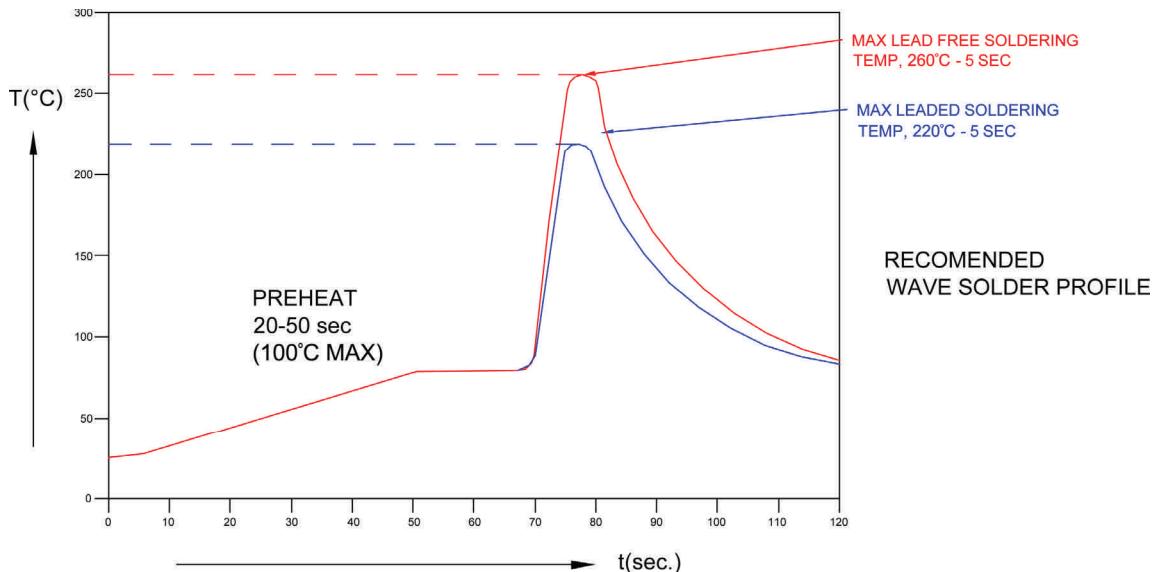
Fig. 6 Relative Luminous Intensity vs. Temperature

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

3mm (T1) Package Discrete LED AMBER/GREEN, Bi-Color

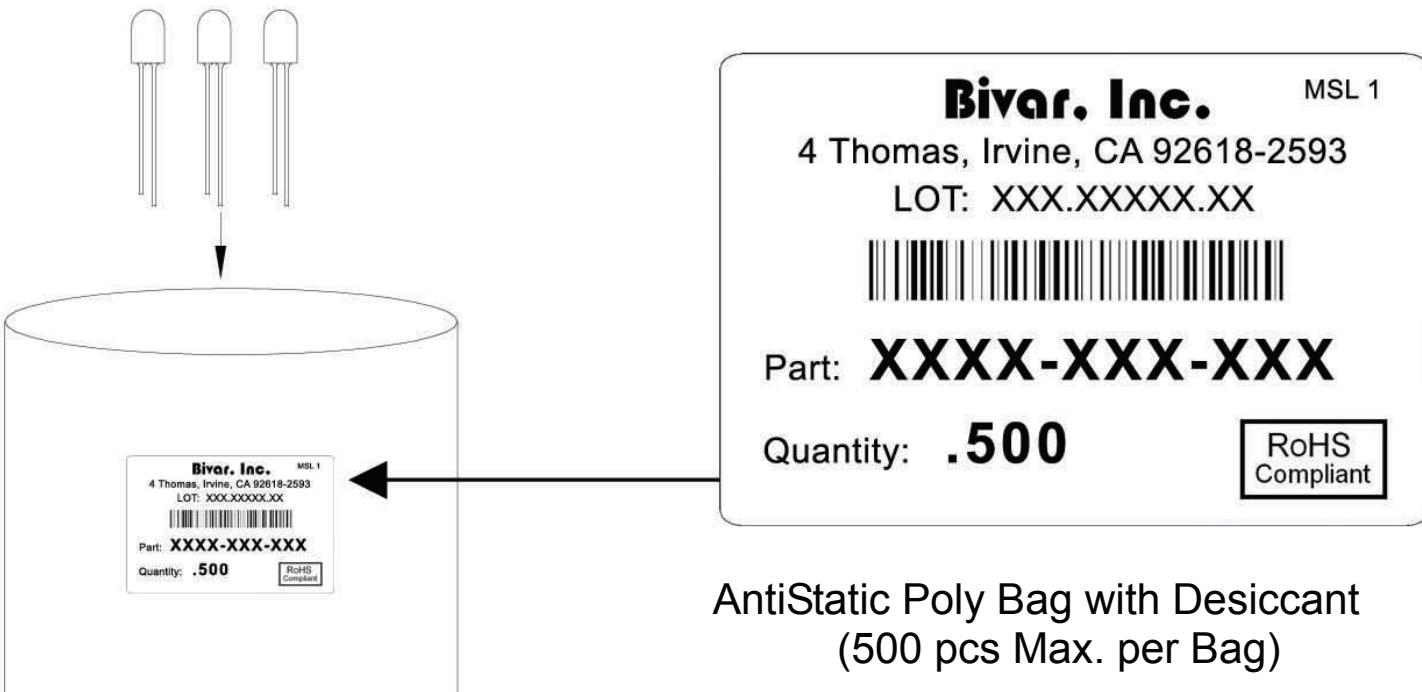
BIVAR

Recommended Soldering Conditions



Recommended Lead Free Wave Soldering Profile	
Preheat Temperature: 100°C Max.	Peak Temperature: 260°C Max.
Preheat Time: 20 ~ 50 Seconds	Solder Time Above 217°C: 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



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

Mouser Electronics

Authorized Distributor

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

[BIVAR](#):

[3BC-A/G](#) [3BC-A/G-F](#)