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



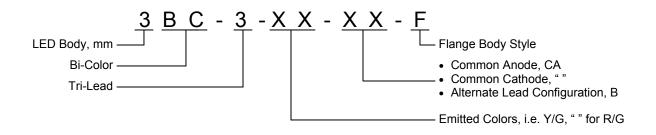
3BC-3-CA-F

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

Bivar 3mm T1 Package 3-Lead Bi-Color 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		
3BC-3-CA-F	GaAsP/Gap	RED	625nm	White Diffused	45°		
	Gap/Gap	ap/Gap GREEN		white Dilused	40		

Part Number Designation



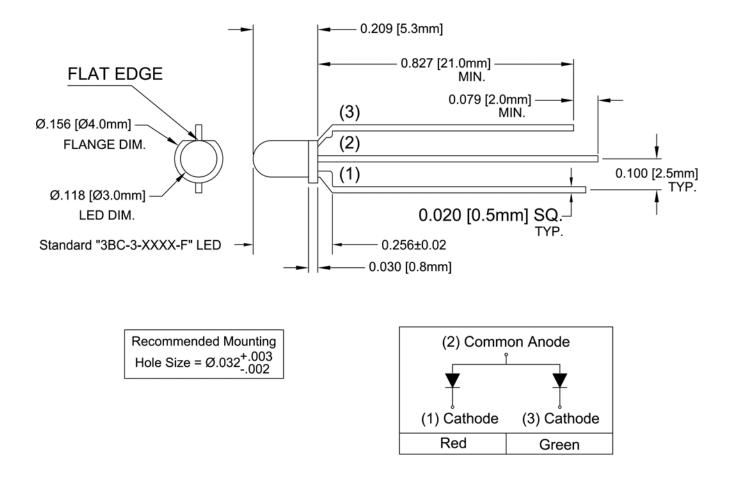


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3mm (T1) Package Discrete LED **RED/GREEN**, Bi-Color



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
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 \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	Emitted Color	Forward Voltage (V) ¹		Recommend Forward Current (mA)		Reverse Current (µA)	Dominant Wavelength (nm) ²		Luminous Intensity Iv (mcd)			Viewing Angle 2 O ¹ / ₂ (deg)			
		MIN	TYP	MAX	MIN	TYP	MAX	MAX	MIN	TYP	MAX	MIN	TYP	MAX	TYP
3BC-3- CA-F	Red	/	2.0	2.8	/ 20	20) /	100	/	/	/	/	6	/	45
	Green	/	2.1	2.8		20			/	/	/	/	6	/	

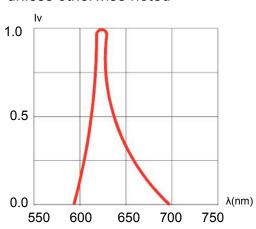
Notes: 1. Tolerance of forward voltage : ±0.05V. 2. Tolerance of dominant wavelength : ±1.0nm.

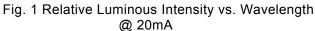
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Typical Electrical / Optical Characteristics - Red

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





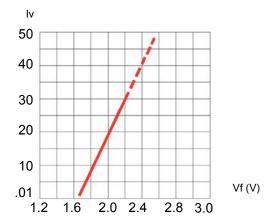
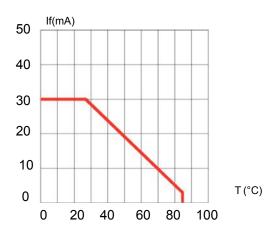
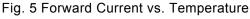
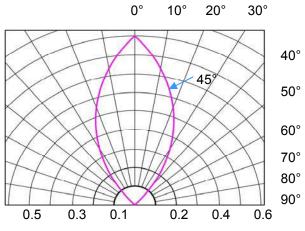


Fig. 3 Relative Intensity (10mA) vs. Forward Voltage









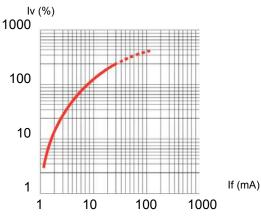
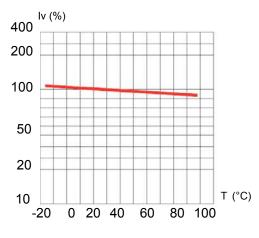
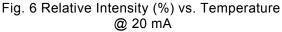


Fig. 4 Relative Luminous Intensity (%) vs. Forward Current

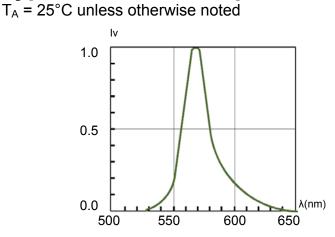


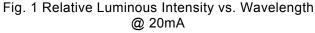


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Typical Electrical / Optical Characteristics - Green





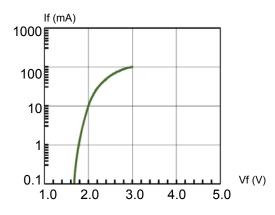
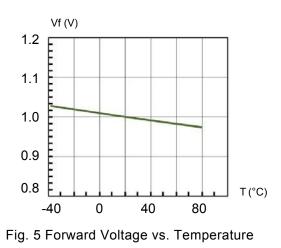
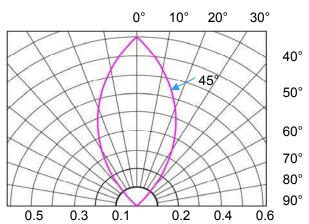


Fig. 3 Forward Current vs. Forward Voltage







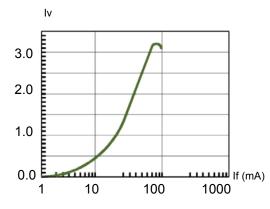
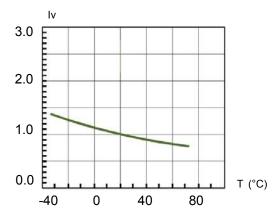
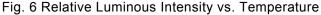


Fig. 4 Relative Luminous Intensity vs. Forward Current Normalize @ 20 mA



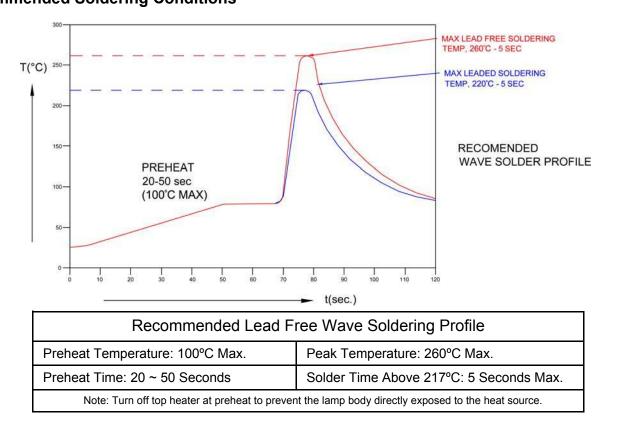


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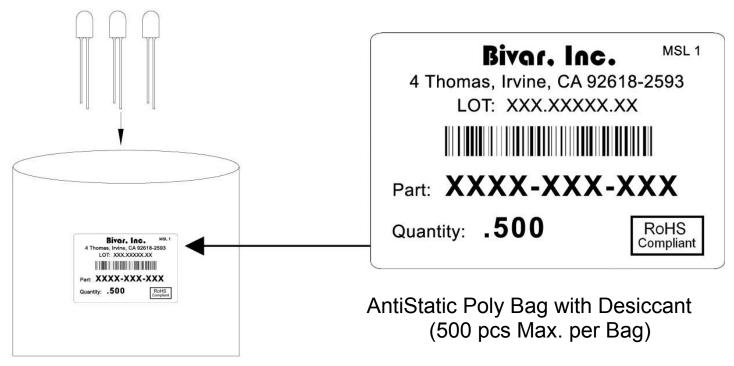
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Recommended Soldering Conditions



Packaging and Labeling Plan



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