5mm (T1 ³⁄₄) Package Discrete LED RED/GREEN, Bi-Color



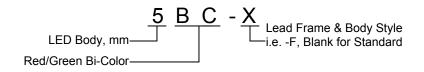
5BC-<mark>X</mark>

- Industry Standard 5mm (T1 ³/₄) Package
- RoHS Compliant
- White Diffused Lens
- Available in Flange (F) and Standard (Blank) Lead Frame styles
- 2-Lead Bi-Color LED
- Ideal for Status Indication and Display

Bivar 5mm T1 ³⁄₄ Package 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. Bivar offers white diffused LED lens for uniform light output. 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		
5BC-F	GaAsP/GaP	RED	625nm		45°		
	GaP/GaP	GREEN	568nm	White Diffused			
5BC	GaAsP/GaP	RED	625nm	white Diffused			
	GaP/GaP	GREEN	568nm				

Part Number Designation





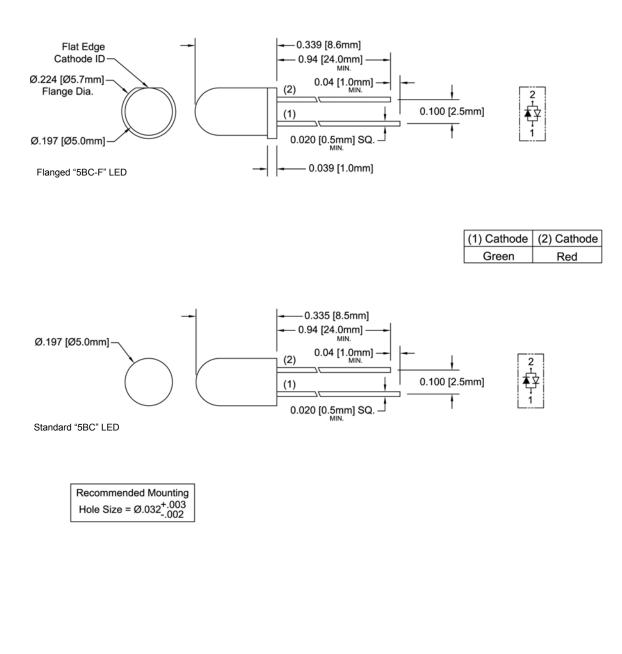
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5mm (T1 ³/₄) Package Discrete LED RED/GREEN, Bi-Color



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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
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
5BC-F	Red	/	2.0	2.8	/	20	/	100	/	/	/	/	8	/	45
	Green	/	2.1	2.8					/	/	/	/	8	/	
5BC	Red	/	2.0	2.8	/	20	/	100	/	/	/	/	6	/	45
	Green	/	2.1	2.8					/	/	/	/	8	/	

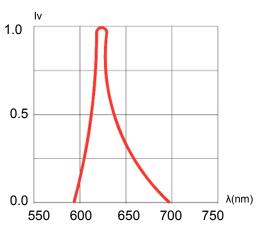
Notes: 1. Tolerance of forward voltage : ±0.05V. 2. Tolerance of dominant wavelength : ±1.0nm.

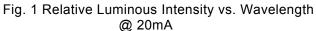
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Typical Electrical / Optical Characteristics - Red

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





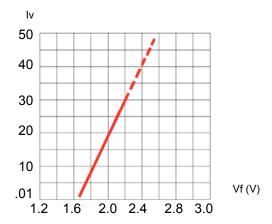
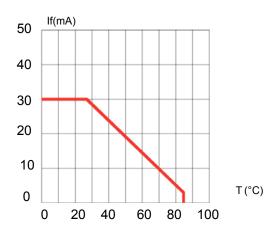
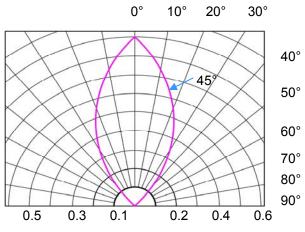


Fig. 3 Relative Intensity (10mA) vs. Forward Voltage









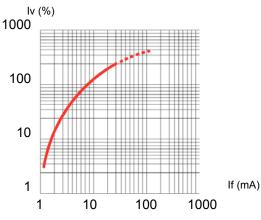
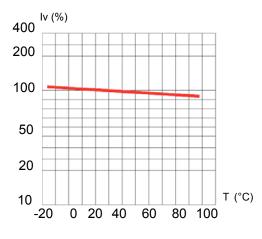
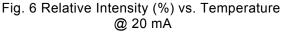


Fig. 4 Relative Luminous Intensity (%) vs. Forward Current

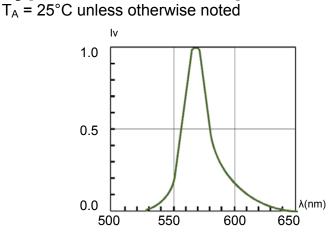


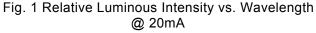


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Typical Electrical / Optical Characteristics - Green





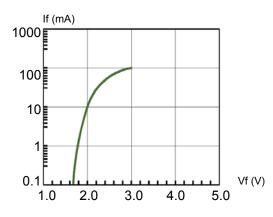
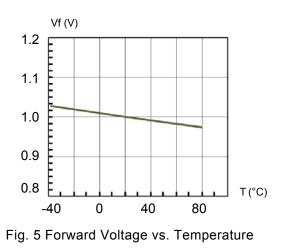
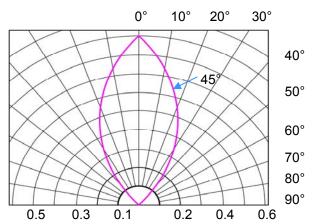


Fig. 3 Forward Current vs. Forward Voltage







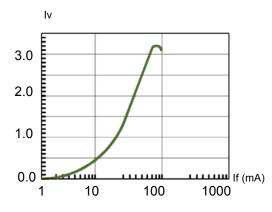
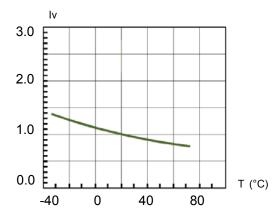
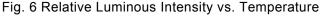


Fig. 4 Relative Luminous Intensity vs. Forward Current Normalize @ 20 mA



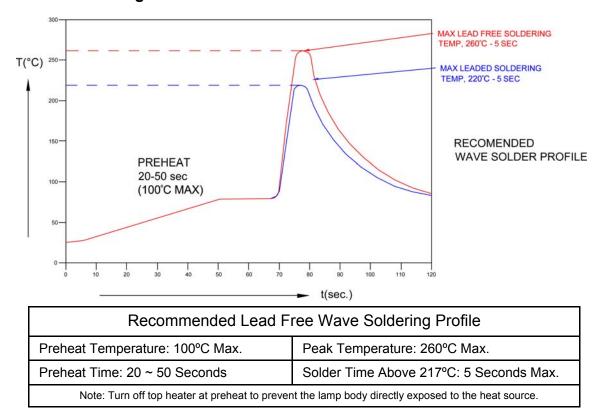


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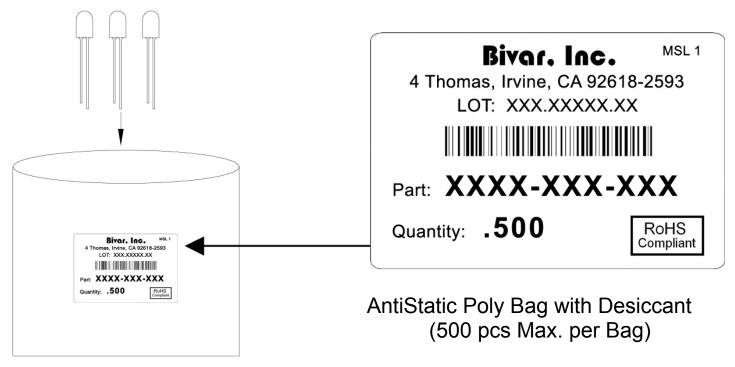
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Recommended Soldering Conditions



Packaging and Labeling Plan



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