# Rectangular Package Discrete LED RED/GREEN, 2 x 5 mm, Bi-Color



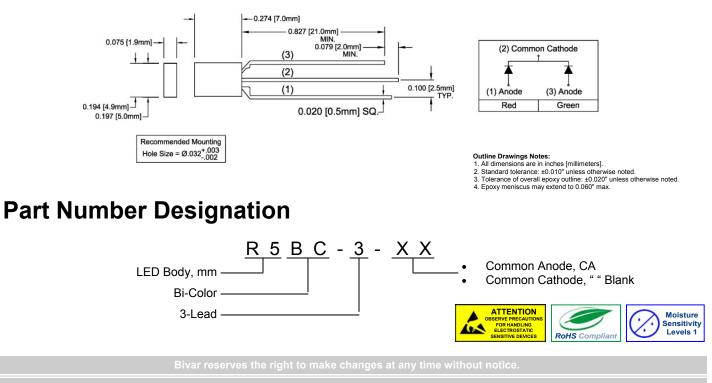
#### R5BC-3

- Rectangular Package
- RoHS Compliant
- White Diffused Lens
- Available in Shouldered Lead Frame style
- 3-Lead Bi-Color LED
- Ideal for Status Indication and Bar Graph Displays

Bivar Rectangular 2 x 5mm Package 3-Lead Bi-Color LED is ideal for those applications where multiple signals need to be displayed at the same location such as standby-on indication on server or computer peripherals. When needed, the third color signal can be created by powering up both chips together for on-off-standby applications with three distinct signals.. The rectangular package makes it ideal for greater indication visibility and creating bar graph displays when arranged in linear LED arrays. Bivar offers white diffused LED lens for uniform light output. The Shouldered Lead frame LED is ideal for vertical spacer assemblies and Right Angle Holder assemblies that require lead bends. This 3-Lead Bi -Color LED package comes in a common cathode Lead Frame configuration.

Part Number	Material	Emitted Color	Peak. Wavelength λp(nm) TYP.	Lens Appearance	Viewing Angle	
R5BC-3	GaAsP/GaP	RED	625nm	White Diffused	120°	
	GaP/GaP	GREEN	568nm			

## **Outline Dimensions**



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# **Absolute Maximum Ratings**

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

Power Dissipation	80 mW
Forward Current ( DC )	30 mA
Peak Forward Current <sup>1</sup>	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 ) <sup>2</sup>	260°C

Notes: 1. 10% Duty Cycle, Pulse Width  $\leq$  0.1 msec. 2

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	· voltage (v)		Recommend Forward Current (mA)		Reverse Current (µA)	Dominant Wavelength (nm) <sup>2</sup>		Luminous Intensity Iv (mcd)		Viewing Angle 2 O <sup>1</sup> / <sub>2</sub> (deg)				
		MIN	TYP	MAX	MIN	TYP	MAX	MAX	MIN	TYP	MAX	MIN	TYP	MAX	TYP
R5BC-3	Red	/	2.0	2.8	/ 20	20	,	100	/	/	/	/	4	/	120
	Green	/	2.1	2.8		/	100	/	/	/	/	4	/	120	

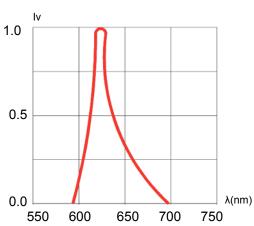
Notes: 1. Tolerance of forward voltage : ±0.05V. 2. Tolerance of dominant wavelength : ±1.0nm.

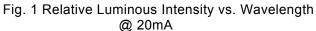
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# Typical Electrical / Optical Characteristics - Red

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





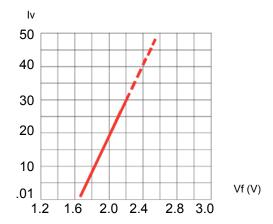
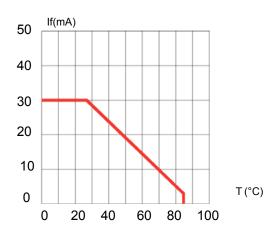
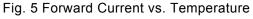
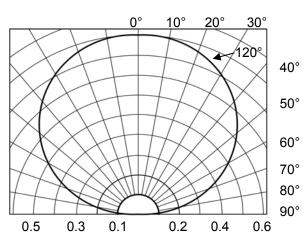


Fig. 3 Relative Intensity (10mA) vs. Forward Voltage









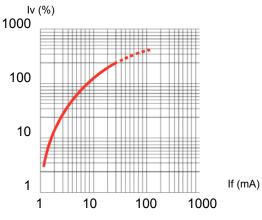
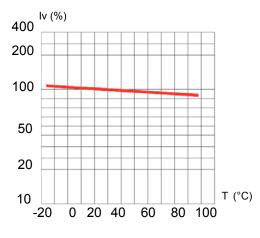
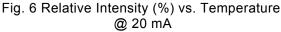


Fig. 4 Relative Luminous Intensity (%) vs. Forward Current



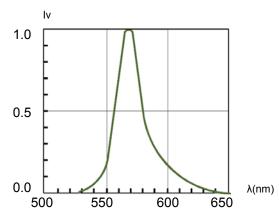


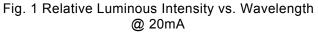
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# Typical Electrical / Optical Characteristics - Green

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





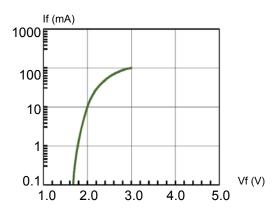
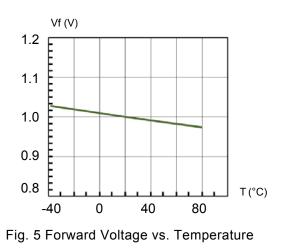


Fig. 3 Forward Current vs. Forward Voltage



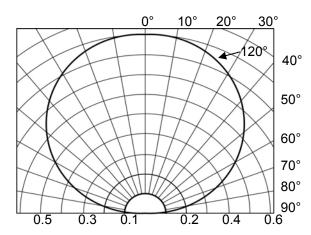


Fig. 2 Directivity Radiation Diagram

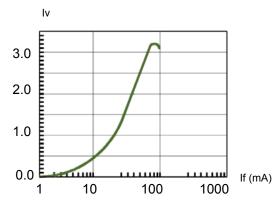
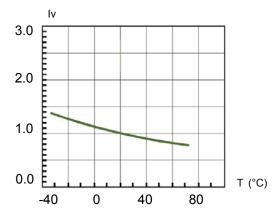
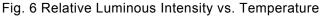


Fig. 4 Relative Luminous Intensity vs. Forward Current Normalize @ 20 mA

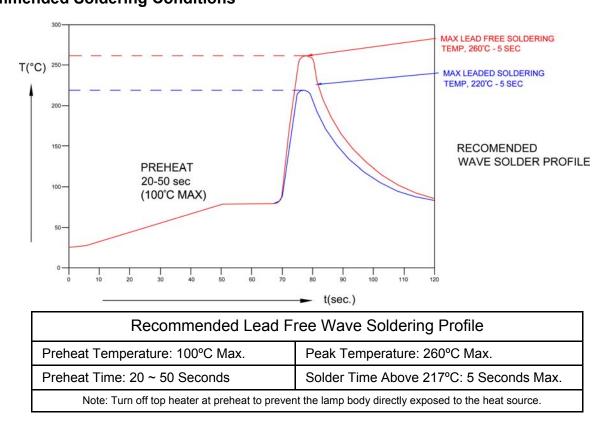




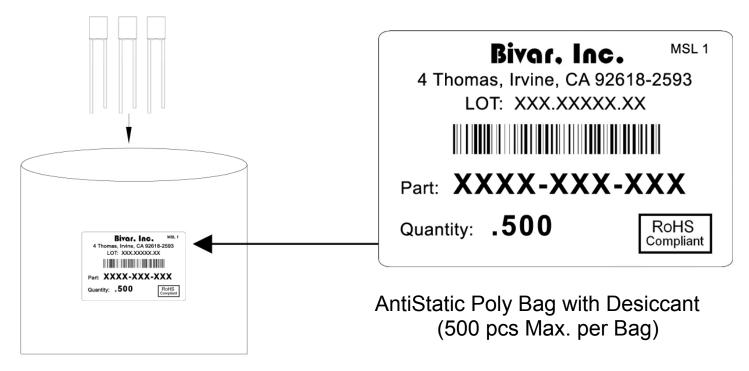
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### Recommended Soldering Conditions



#### Packaging and Labeling Plan



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