# 4-Pin Super Flux RGB LED Lamp Orca R Series (4.6mm Dome)



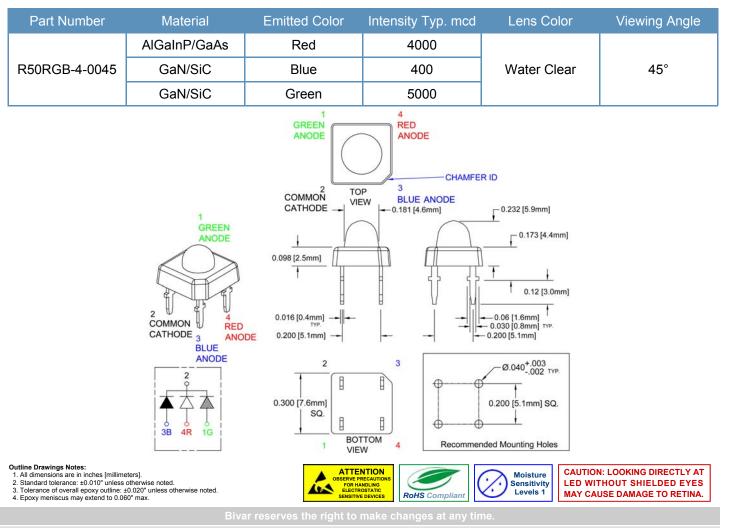
### R50RGB-4-0045

- RoHS Compliant
- Low Profile Dome Lens
- Automatic Insertion Compatible Tubular Packaging
- Automatic Placement Compatible
- High Intensity Output
- High Power Efficiency



Bivar **R50RGB-4-0045** comes with low profile package design incorporating higher forward current to maximize intensity while minimizing the number of LEDs required to achieve uniform and enhanced light distribution. Low power consumption with quick response time means savings in electricity.

Bivar **R50RGB-4-0045** can be coupled with reflectors or lenses for optimal light distribution needs. Typical applications are automotive exterior lighting, decorative interior or exterior lighting, specialty stage lighting, and electronic signage.





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#### Absolute Maximum Ratings

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

Power Dissipation	R - 150 mW B/G - 220 mW
Forward Current ( DC )	80 mA
Peak Forward Current <sup>1</sup>	R - 160 mA B/G - 150 mA
Electrostatic Discharge ( Class1 )	1000 V
Reverse Voltage	5 V
Operating Temperature Range	-25 ~ +80°C
Storage Temperature Range	-30 ~ +80°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. Solder time less than 5 seconds at temperature extreme.

#### **Electrical Characteristics**

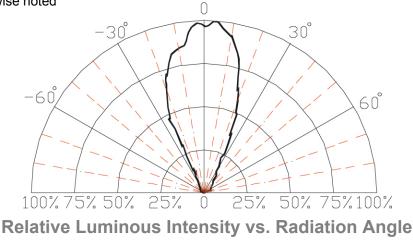
 $T_A = 25^{\circ}C \& I_F = 50 \text{ mA}$  unless otherwise noted

Emitting Color	Forward Voltage (V) <sup>1</sup>		Recommend Forward Current (mA)	Reverse Current (μA) V <sub>R</sub> =5V	Dominant Wavelength (nm) <sup>2</sup>		Luminous Intensity (mcd) <sup>3</sup>		Viewing Angle 2 Θ ½ (deg)	
	MIN	TYP	MAX	TYP	MAX	MIN	MAX	MIN	ТҮР	ТҮР
Red	2.2	2.6	3.0	50	10	620	635	3000	4000	45
Blue	3.4	3.8	4.4	50	10	460	470	200	400	45
Green	3.4	3.8	4.4	50	10	515	525	4000	5000	45

Notes: 1. Tolerance of Forward Voltage : ±0.05V. 2. Tolerance of Dominant Wavelength : ±0.1nm. 3. Tolerance of Luminous Intensity : ±15%.

#### **Directivity Radiation**

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



Bivar reserves the right to make changes at any time.



#### **Typical Electrical / Optical Characteristics Curves**

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

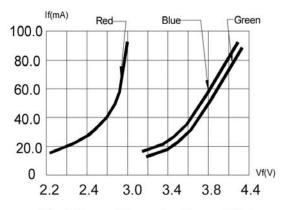
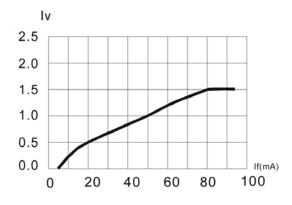


Fig.1 Forward Current vs.Forward Voltage





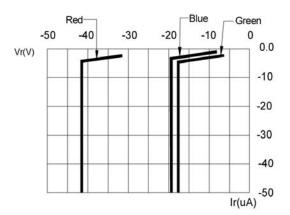
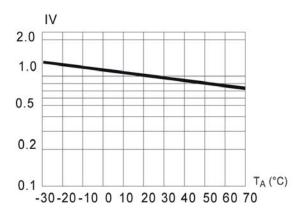
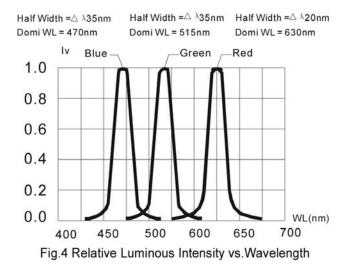
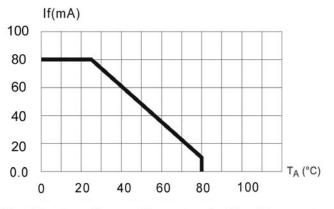


Fig.3 Reverse Current vs.Reverse Voltage







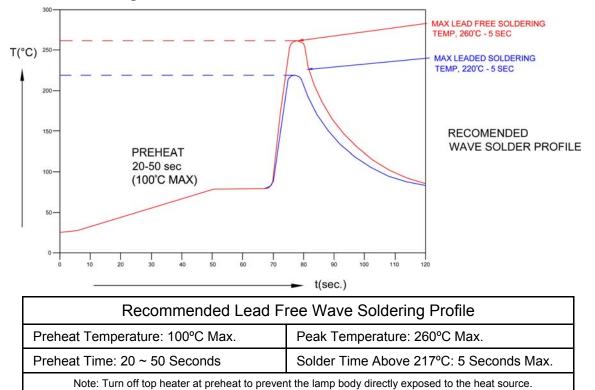




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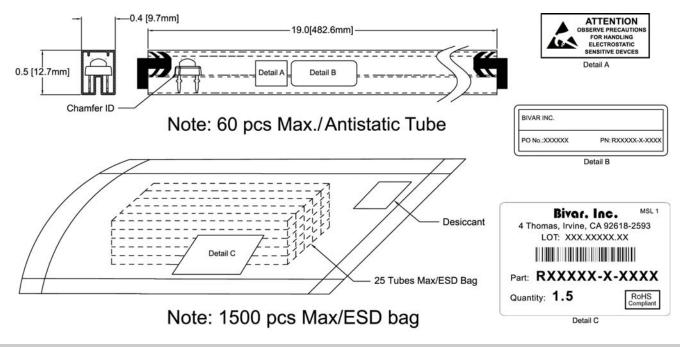


#### **Recommended Soldering Conditions**



### Packaging and Labeling Plan

Bivar Orca R series Super Flux LEDs are packaged in tubes, each of which contains 60 LEDs; and each tube contains a rubber stopper at each end.



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