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Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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4-Pin Super Flux Red/Green LED Lamp Orca R Series (4.6mm Dome)



R50RG2-4-0045

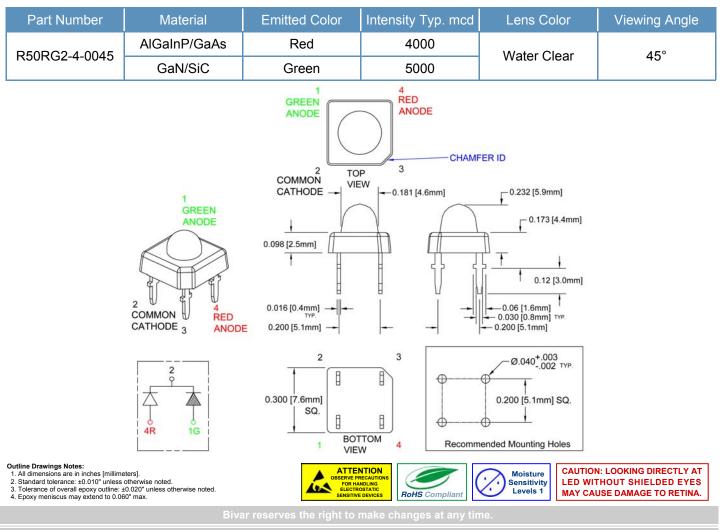
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- RoHS Compliant
- Low Profile Dome Lens
- Automatic Insertion Compatible Tubular Packaging
- Automatic Placement Compatible
- High Intensity Output
- High Power Efficiency



Bivar **R50RG2-4-0045** 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 **R50RG2-4-0045** 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.





Absolute Maximum Ratings

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

Power Dissipation	R - 150 mW G - 220 mW
Forward Current (DC)	80 mA
Peak Forward Current ¹	R - 160 mA G - 150 mA
Electrostatic Discharge (Class1)	R - 1000 V G - 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) 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 Characteristics

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

Emitting Color	Forward Voltage (V) ¹		Recommend Forward Current (mA)	Reverse Current (μA) V _R =5V	Dominant Wavelength (nm) ²		Luminous Intensity (mcd) ³		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
Green	3.4	3.8	4.4	50	10	515	525	4000	5000	45

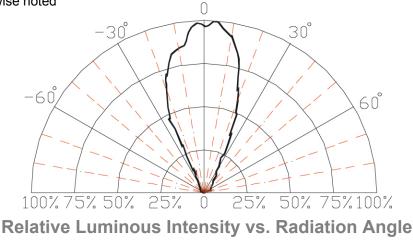
Notes: 1. Tolerance of Forward Voltage : ±0.05V.

2. Tolerance of Dominant Wavelength : ±0.1nm.

3. Tolerance of Luminous Intensity : ±15%.

Directivity Radiation

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





Typical Electrical / Optical Characteristics Curves

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

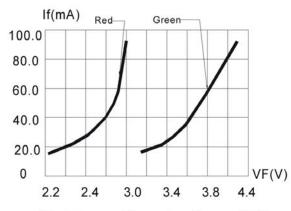
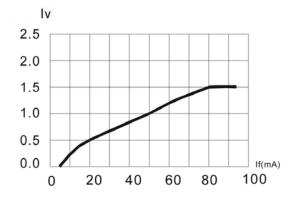
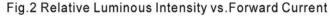


Fig.1 Forward Current vs.Forward Voltage





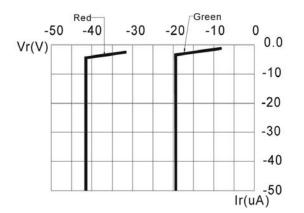
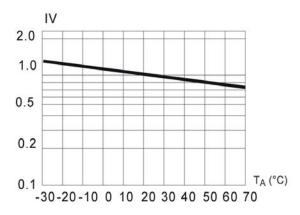
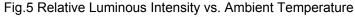


Fig.3 Reverse Current vs.Reverse Voltage





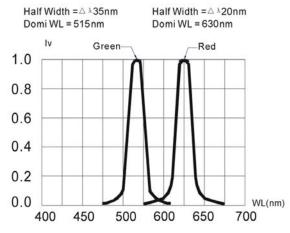
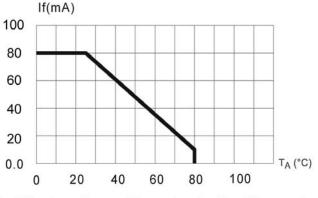


Fig.4 Relative Luminous Intensity vs. Wavelength

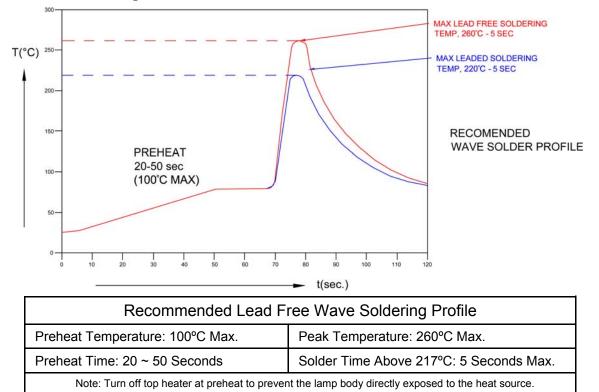




Bivar reserves the right to make changes at any time.

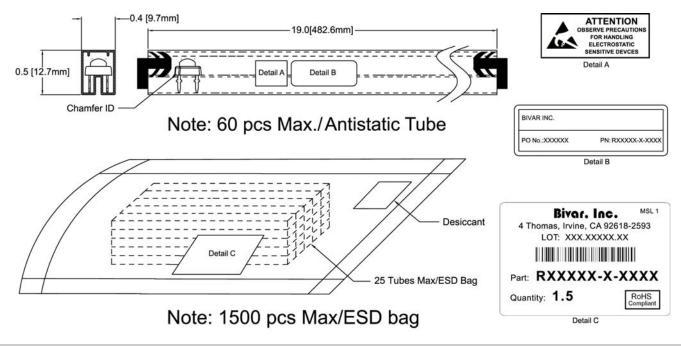


Recommended Soldering Conditions



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.



Bivar reserves the right to make changes at any time.