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



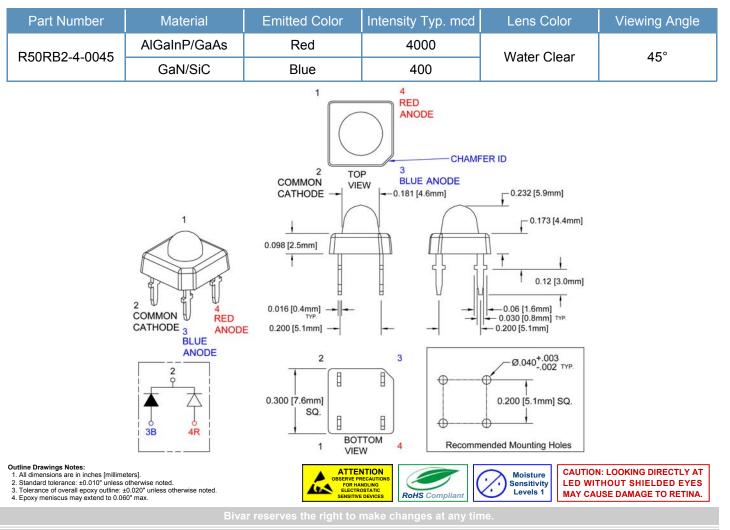
R50RB2-4-0045

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



Bivar **R50RB2-4-0045** 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 **R50RB2-4-0045** 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 B - 220 mW
Forward Current (DC)	80 mA
Peak Forward Current ¹	R - 160 mA B - 150 mA
Electrostatic Discharge (Class1)	R - 1000 V B - 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	TYP	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

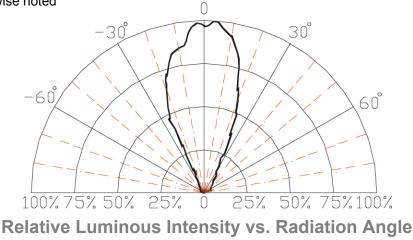
Notes: 1. Tolerance of Forward Voltage : ±0.05V.

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

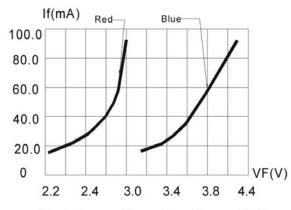
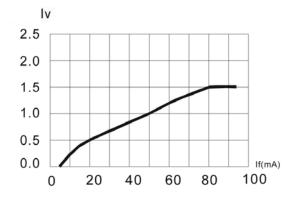


Fig.1 Forward Current vs.Forward Voltage





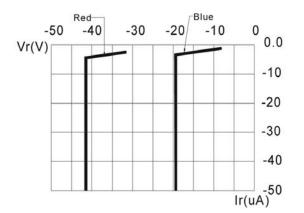
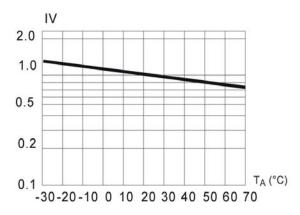


Fig.3 Reverse Current vs.Reverse Voltage





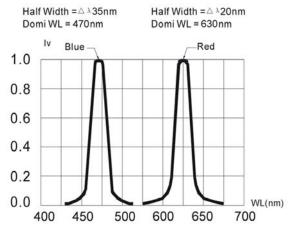
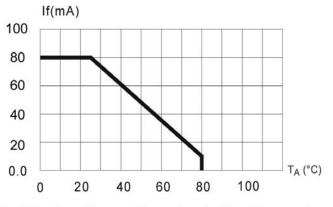
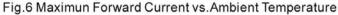


Fig.4 Relative Luminous Intensity vs. Wavelength

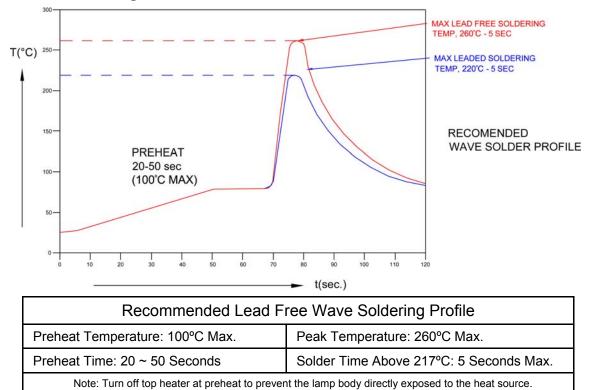




Bivar reserves the right to make changes at any time.

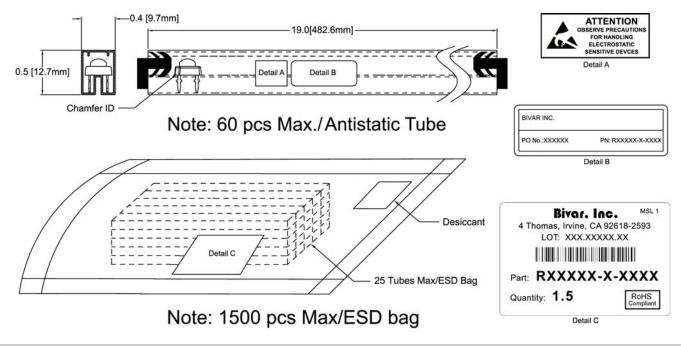


Recommended Soldering Conditions



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.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Standard LEDs - Through Hole category:

Click to view products by Bivar manufacturer:

Other Similar products are found below :

LTL-10254W LTL-1214A LTL-3251A LTL-4262N LTL-433P LTL-5234 LTL87HTBK LTW-87HD4B HLMP-EL30-PS0DD 1L0532V23G0TD001 NSPW500CS NTE30036 NTE30044 NTE30059 NTE3020 LD CQDP-1U3U-W5-1-K LO566UHR3-70G-A3 LP379PPG1C0G0300001 SLX-LX3044GD SLX-LX3044ID SLX-LX3044YD 1.90690.3330000 SSS-LX4673ID-410B 1L0532Y24I0TD001 264-7SYGD/S530-E2 HLMP1385 LTL-10224W LTL-1224A LTL-1234A LTL-2251AT LTL-307YE-012 LTL-403HR LTL-4222 LU7-E-B 4380H1 TLHY44K1L2 HLMP-3962-F0002 HLMP-GG15-R0000 323-2SURD/S530-A3 L53SRC/E-Z L-7679C1ZGC 4302T1-5V 4306D23 4363D1/5 WP1503SRC/J4 WP153GDT WP153YDT WP1543SGC WP1543SURC WP53MGD