# 4-Pin Super Flux Red LED Lamp Orca R Series (5mm Dome)



## R50RED-5-0080

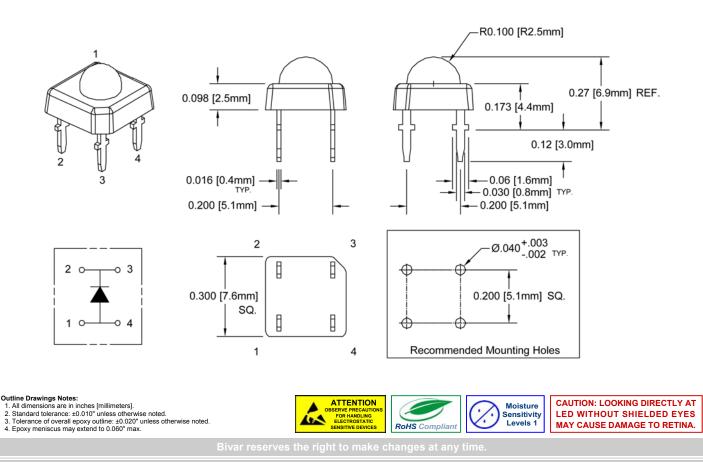
- RoHS Compliant
- Low Profile Dome Lens
- Automatic Insertion Compatible Tubular Packaging
- Automatic Placement Compatible
- High Intensity Output
- High Power Efficiency



Bivar **R50RED-5-0080** 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 **R50RED-5-0080** 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.

Part Number	Material	Emitted Color	Intensity Typ. mcd	Lens Color	Viewing Angle	
R50RED-5-0080	AlGaInP/GaAs	Red	2000	Water Clear	80°	





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### Absolute Maximum Ratings

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

Power Dissipation	140 mW
Forward Current ( DC )	80 mA
Peak Forward Current <sup>1</sup>	160 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 ≤ 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 (μΑ) V <sub>R</sub> =5V	Dominant Wavelength (nm) <sup>2</sup>		Luminous Intensity (mcd) <sup>3</sup>		Viewing Angle 2 ⊖ ½ (deg)
	MIN	ТҮР	MAX	ТҮР	МАХ	MIN	MAX	MIN	ТҮР	ТҮР
Red	2.0	2.4	2.8	50	10	620	635	1500	2000	80

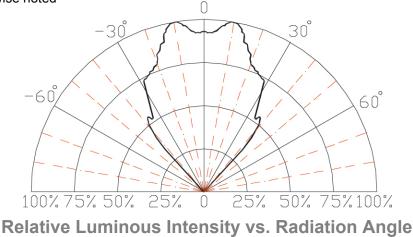
Notes: 1. Tolerance of Forward Voltage : ±0.05V.

2. Tolerance of Dominant Wavelength : ±0.1nm.

3. Tolerance of Luminous Intensity : ±15%.

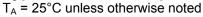
## **Directivity Radiation**

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





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



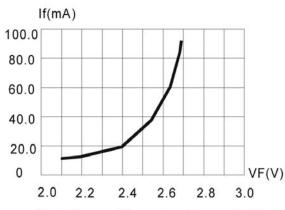
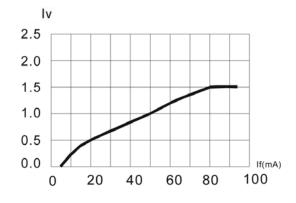


Fig.1 Forward Current vs.Forward Voltage





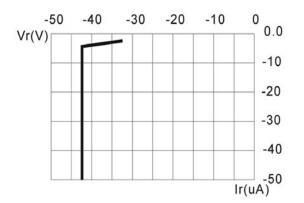
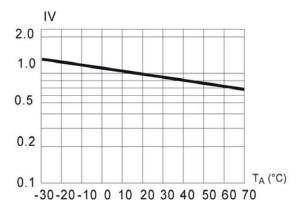


Fig.3 Reverse Current vs. Reverse Voltage





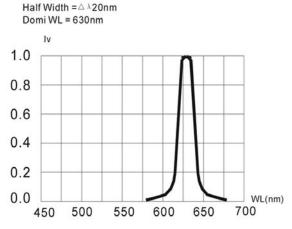
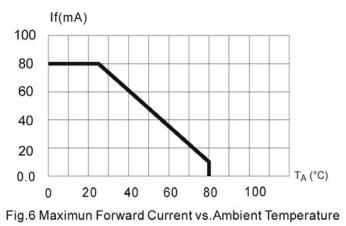


Fig.4 Relative Luminous Intensity vs. Wavelength

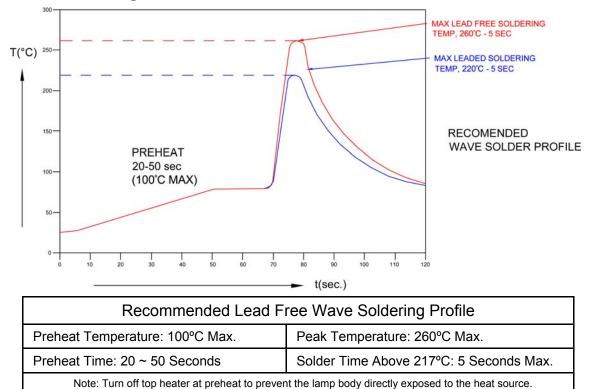




# 4-Pin Super Flux Red LED Lamp R50RED-5-0080

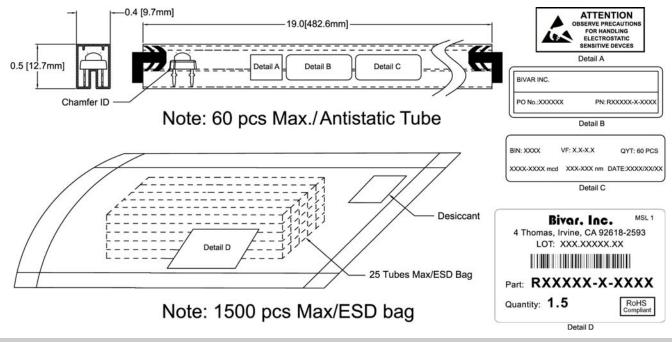


### **Recommended Soldering Conditions**



## 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.

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