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



R20GRN-5-0080

- **RoHS Compliant** ٠
- Low Profile Dome Lens
- Automatic Insertion Compatible Tubular Packaging
- Automatic Placement Compatible
- **High Intensity Output**
- **High Power Efficiency**

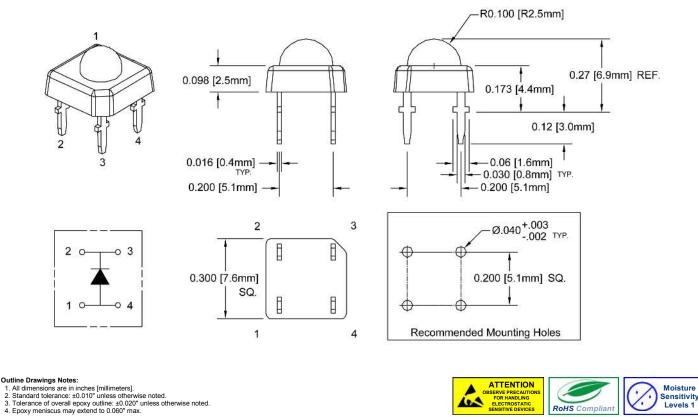


Bivar R20GRN-5-0080 comes with low profile package design incorporating higher forward current to maximize intensity while minimizing the number of LEDs required to achieve uniform and enhanced light distribution. Low power consumption with quick response time means savings in electricity.

Bivar **R20GRN-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.

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Part Number	Material	Emitted Color	Intensity Typ. mcd	Lens Color	Viewing Angle	
R20GRN-5-0080	InGaN/Sapphire	Green	6000	Water Clear	80°	



Levels 1

FOR HANDLING

RoHS Co



Absolute Maximum Ratings

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

Power Dissipation	220 mW
Forward Current (DC)	50 mA
Peak Forward Current ¹	100 mA
Electrostatic Discharge (Class1)	2000 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 ≤ 0.1 msec.

2. Solder time less than 5 seconds at temperature extreme.

Electrical Characteristics

 $T_A = 25^{\circ}C \& I_F = 20 \text{ mA}$ unless otherwise noted

Emitting Color	Forward Voltage (V) ¹		Recommend Forward Current (mA)	Reverse Current (μΑ) V _R =5V	Dominant Wavelength (nm) ²		Luminous Intensity (mcd) ³		Viewing Angle 2 ⊖ ½ (deg)	
	MIN	ТҮР	MAX	ТҮР	МАХ	MIN	MAX	MIN	ТҮР	ТҮР
Green	2.7	3.2	3.6	20	10	517	527	4000	6000	80

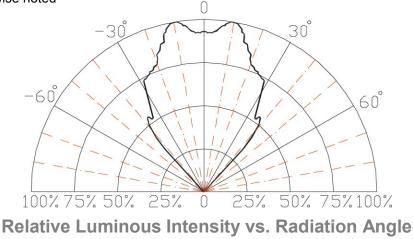
Notes: 1. Tolerance of Forward Voltage : ±0.05V.

2. Tolerance of Dominant Wavelength : ±0.1nm.

3. Tolerance of Luminous Intensity : ±15%.

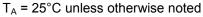
Directivity Radiation

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





Typical Electrical / Optical Characteristics Curves



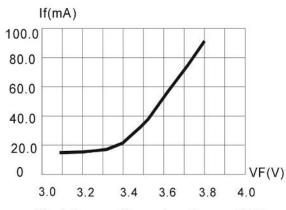


Fig.1 Forward Current vs.Forward Voltage

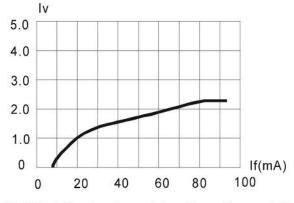


Fig.2 Relative Luminous Intensity vs. Forward Current

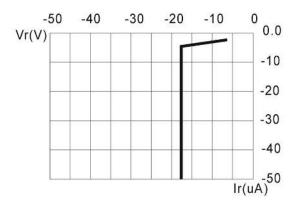
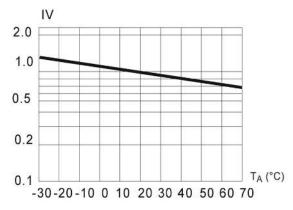


Fig.3 Reverse Current vs. Reverse Voltage





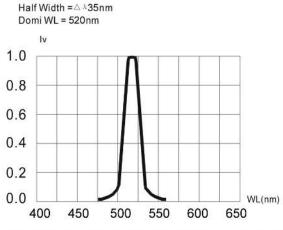
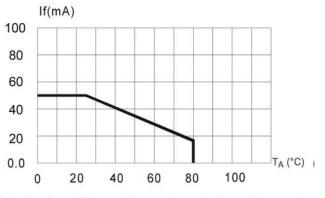


Fig.4 Relative Luminous Intensity vs. Wavelength

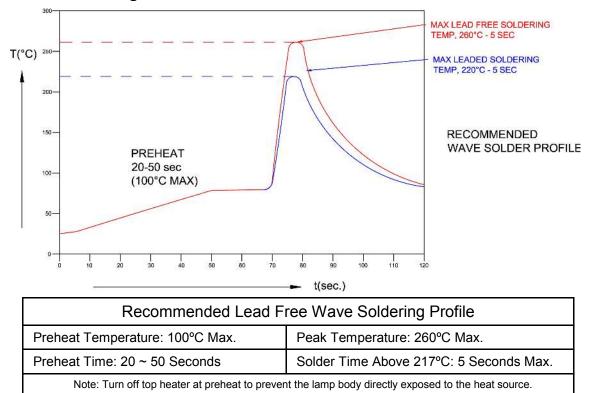




Bivar reserves the right to make changes at any time.

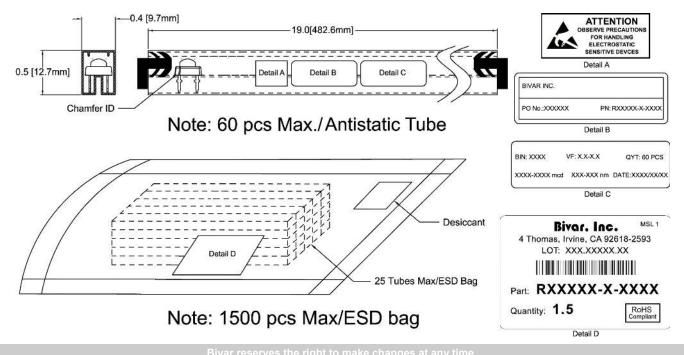


Recommended Soldering Conditions



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.



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