4-Pin Super Flux Blue LED Lamp
Orca R Series (Oval Dome)

BIVAR

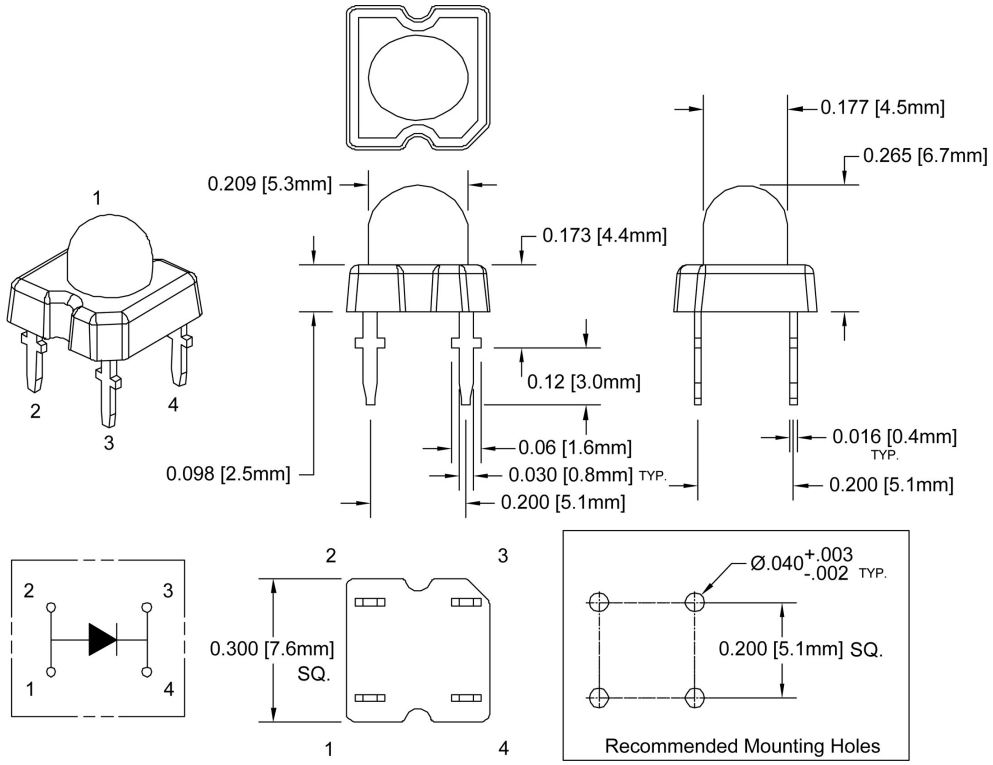
R20BLU-V-3045

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

Bivar **R20BLU-V-3045** 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 **R20BLU-V-3045** 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
R20BLU-V-3045	InGaN/Sapphire	Blue	4000	Water Clear	30/45°



Outline Drawings Notes:
1. All dimensions are in inches [millimeters].
2. Standard tolerance: ±0.010" unless otherwise noted.
3. Tolerance of overall epoxy outline: ±0.020" unless otherwise noted.
4. Epoxy meniscus may extend to 0.060" max.

ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC SENSITIVE DEVICES

RoHS Compliant

Moisture Sensitivity Levels 1

Absolute Maximum Ratings

T_A = 25°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

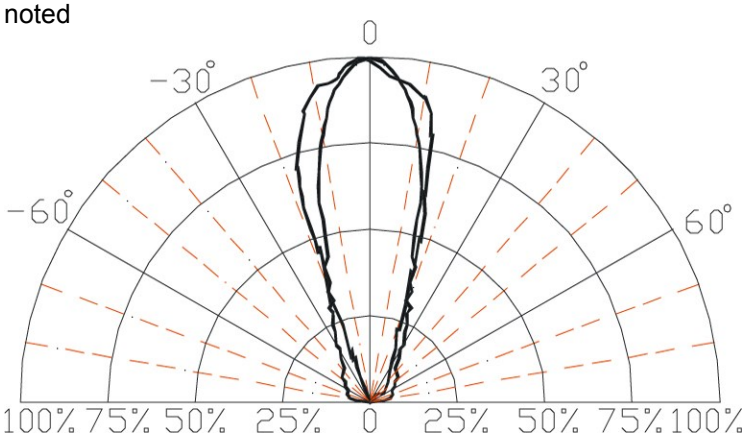
T_A = 25°C & I_F = 20 mA unless otherwise noted

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	TYP
Blue	2.7	3.2	3.6	20	10	465	475	2000	4000	30/45

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°C unless otherwise noted



Relative Luminous Intensity vs. Radiation Angle

Typical Electrical / Optical Characteristics Curves

T_A = 25°C unless otherwise noted

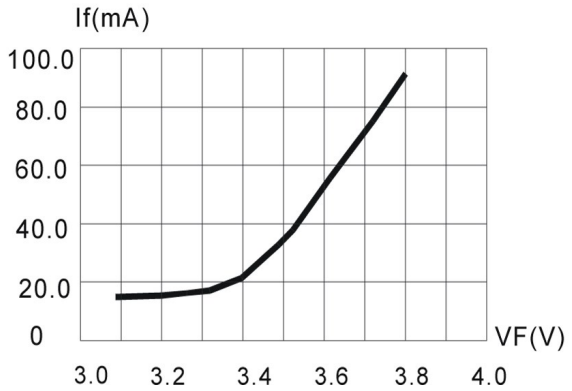


Fig.1 Forward Current vs.Forward Voltage

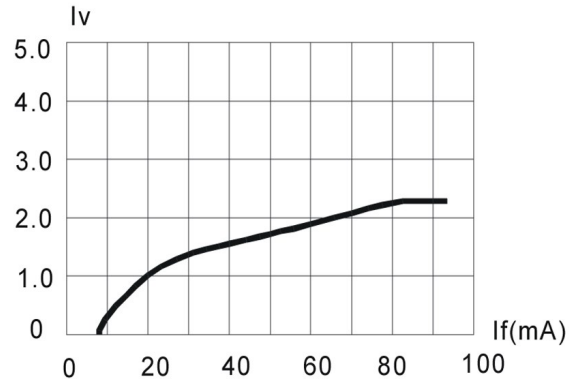


Fig.2 Relative Luminous Intensity vs.Forward Current

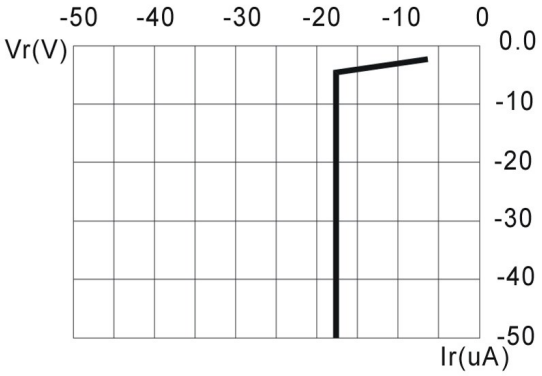


Fig.3 Reverse Current vs.Reverse Voltage

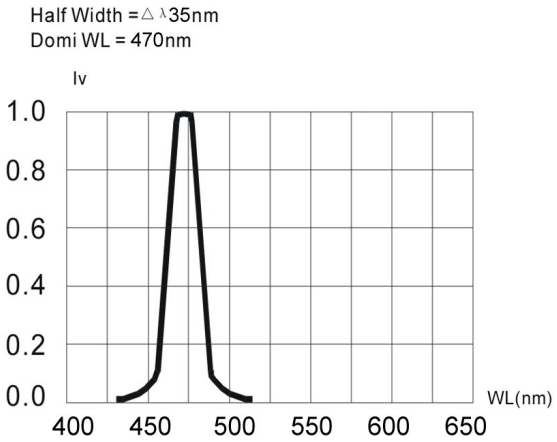


Fig.4 Relative Luminous Intensity vs.Wavelength

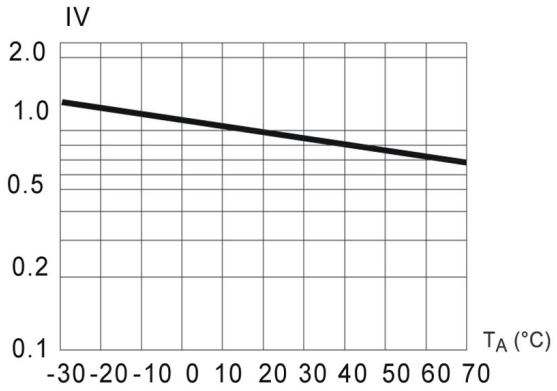


Fig.5 Relative Luminous Intensity vs. Ambient Temperature

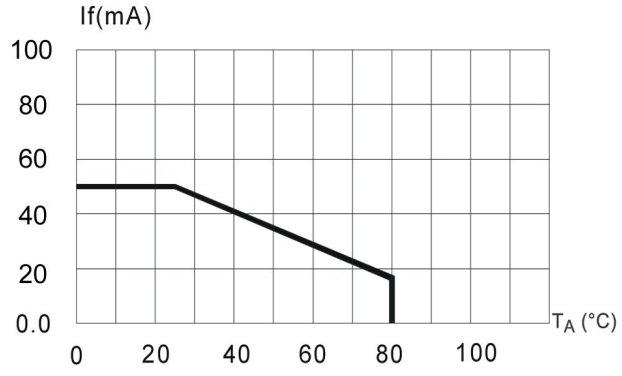
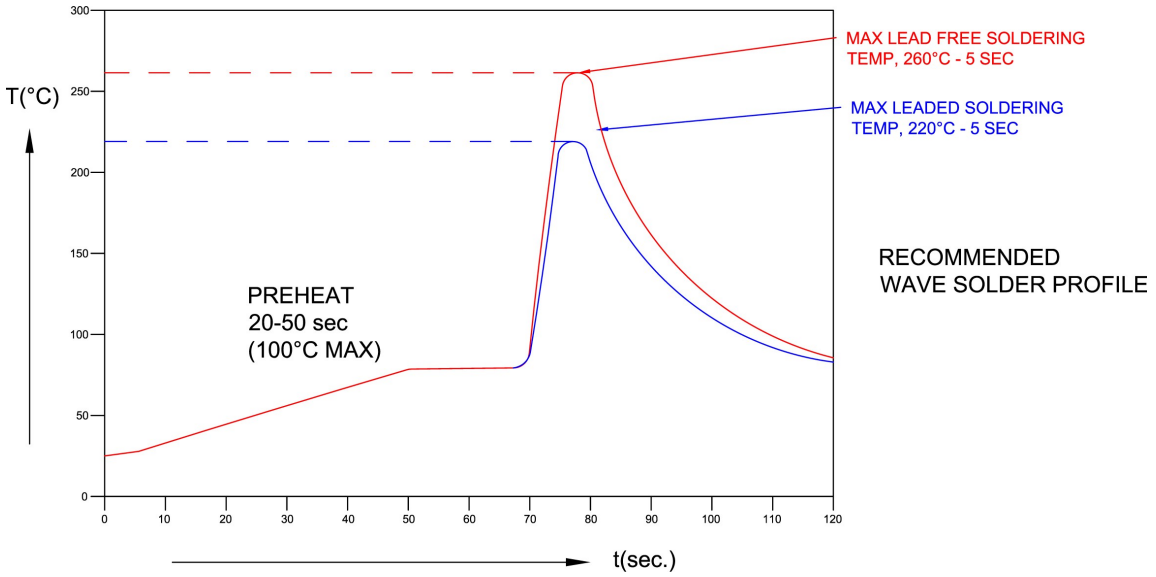


Fig.6 Maximun Forward Current vs.Ambient Temperature

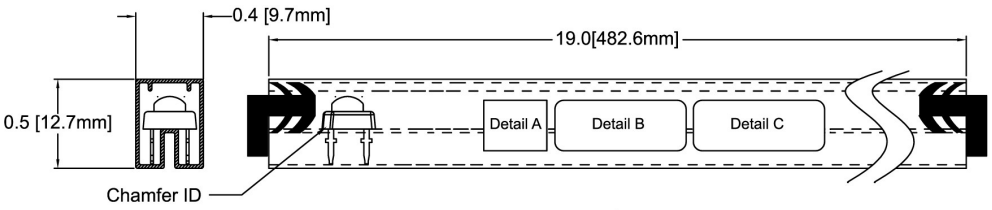
Recommended Soldering Conditions



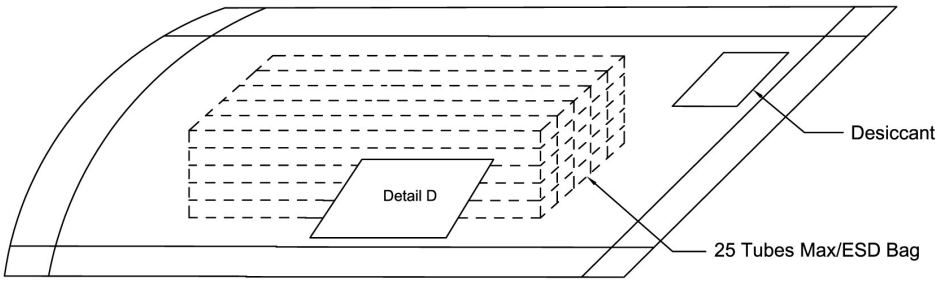
Recommended Lead Free Wave Soldering Profile	
Preheat Temperature: 100ºC Max.	Peak Temperature: 260ºC Max.
Preheat Time: 20 ~ 50 Seconds	Solder Time Above 217ºC: 5 Seconds Max.
Note: Turn off top heater at preheat to prevent the lamp body directly exposed to the heat source.	

Packaging and Labeling Plan

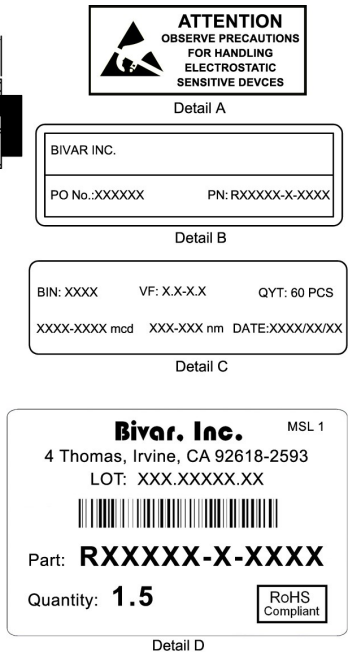
Bivar Orca R series Super Flux LEDs are packaged in tubes, each of which contains 60 LEDs; and each tube contains a rubber stopper at each end.



Note: 60 pcs Max./Antistatic Tube



Note: 1500 pcs Max/ESD bag



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