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

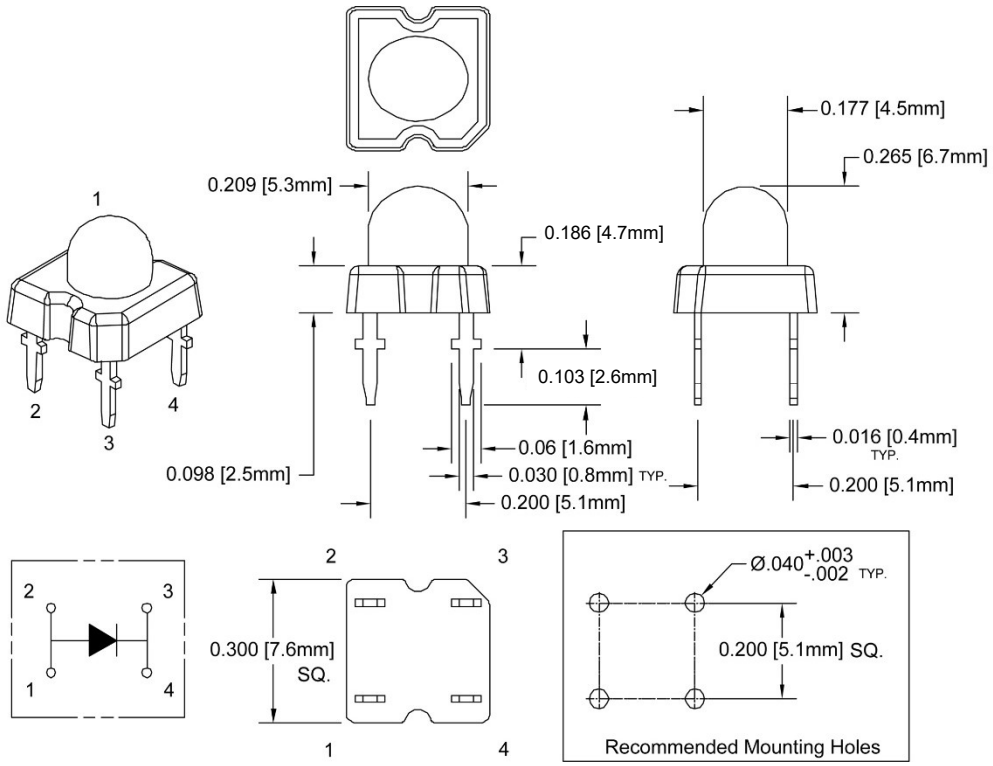
R50YLW-V-0025

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

Bivar **R50YLW-V-0025** 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 **R50YLW-V-0025** 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
R50YLW-V-0025	AlGaInP/GaAs	Yellow	30000	Water Clear	25°



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

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

Absolute Maximum Ratings

T_A = 25°C unless otherwise noted

Power Dissipation	120 mW
Forward Current (DC)	50 mA
Peak Forward Current [1]	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) [2]	260°C

Notes: 1. 10% Duty Cycle, Pulse Width ≤ 0.1 msec. 2. Solder time less than 3 seconds at temperature extreme.

Electrical / Optical Characteristics

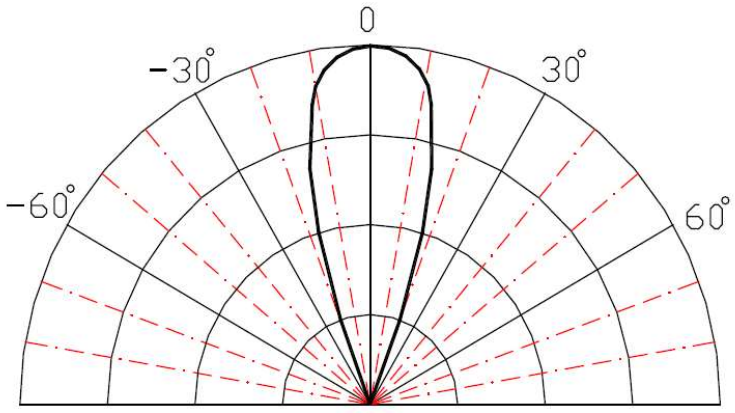
T_A = 25°C & I_F = 50 mA unless otherwise noted

Emitting Color	Forward Voltage (V)[1]			Recommend Forward Current (mA)			Reverse Current (μA)	Dominant Wavelength (nm)[2]			Luminous Intensity Iv (mcd)[3]			Viewing Angle 2 Θ ½ (deg)
	MIN	TYP	MAX	MIN	TYP	MAX	MAX	MIN	TYP	MAX	MIN	TYP	MAX	TYP
Yellow	1.8	2.1	2.4	/	/	50	10	588	/	596	15000	30000	/	25

Notes: 1. Tolerance of forward voltage : ±0.05V. 2. Tolerance of dominant wavelength : ±1.0nm. 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

T_A = 25°C unless otherwise noted

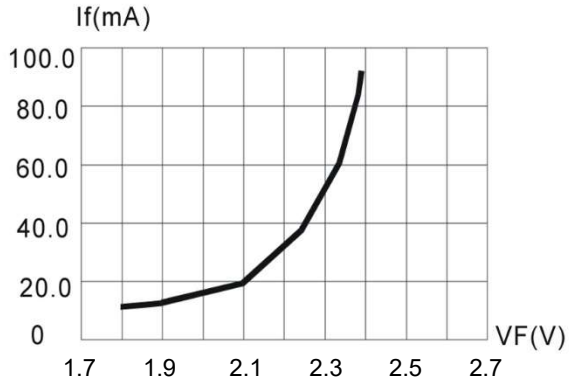


Fig.1 Forward Current vs.Forward Voltage

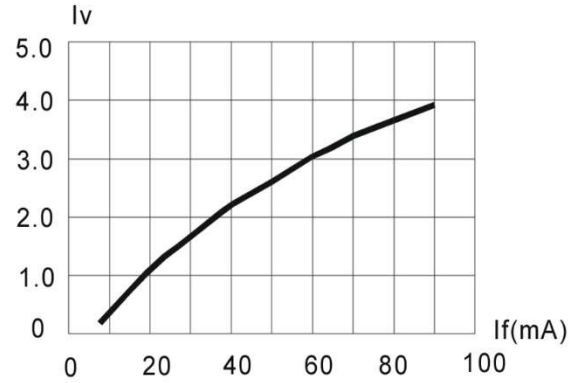


Fig.2 Relative Luminous Intensity vs.Forward Current

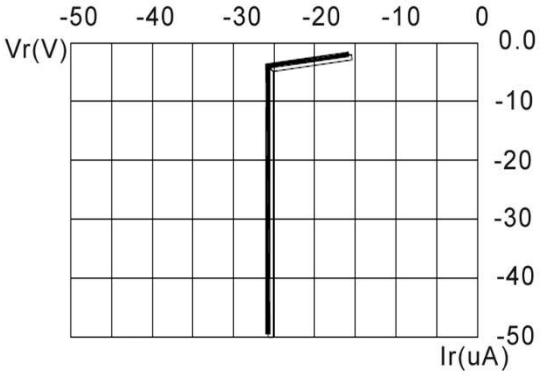


Fig.3 Reverse Current vs.Reverse Voltage

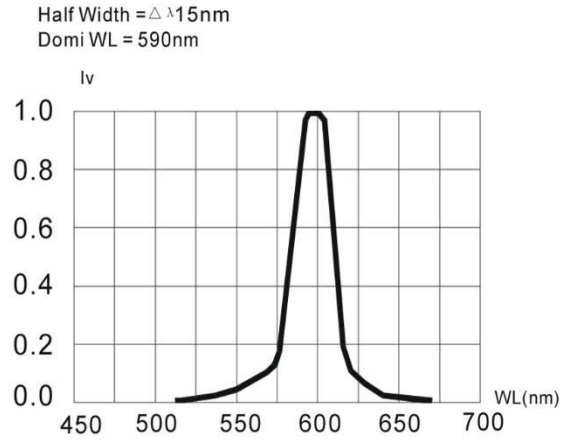


Fig.4 Relative Luminous Intensity vs.Wavelength

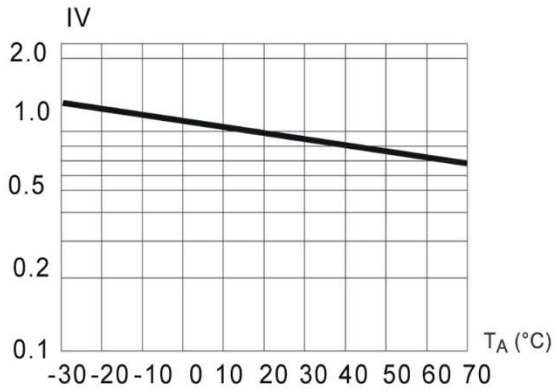


Fig.5 Reverse Luminous Intensity vs.Ambient Temperature

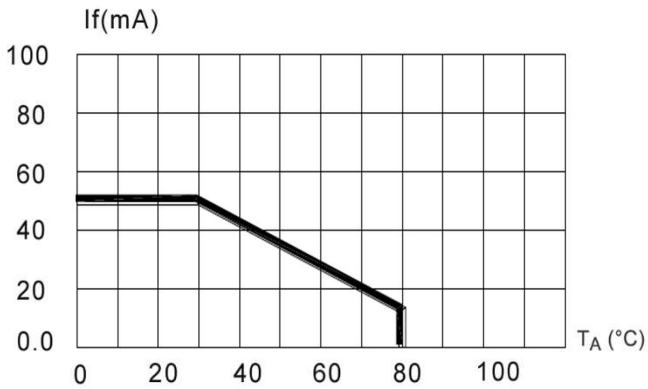


Fig.6 Maximun Forward Current vs.Ambient Temperature

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