

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

BIVAR

R20GRN-V-0025

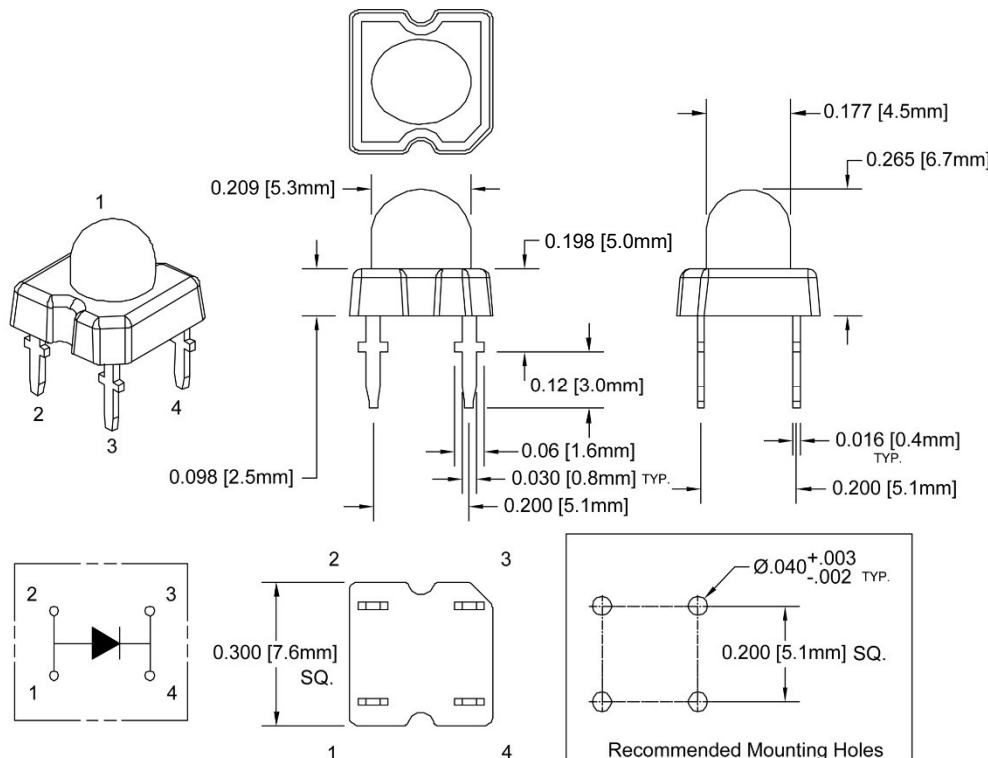
- ◆ RoHS Compliant
- ◆ Low Profile Dome Lens
- ◆ Automatic Insertion Compatible – Tubular Packaging
- ◆ Automatic Placement Compatible
- ◆ High Intensity Output
- ◆ High Power Efficiency



Bivar **R20GRN-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 **R20GRN-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
R20GRN-V-0025	InGaN/Sapphire	Green	40000	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.



Bivar reserves the right to make changes at any time without notice.

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

BIVAR

Absolute Maximum Ratings

T_A = 25°C unless otherwise noted

Power Dissipation	120 mW
Forward Current (DC)	20 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	255°C

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

Electrical / Optical Characteristics

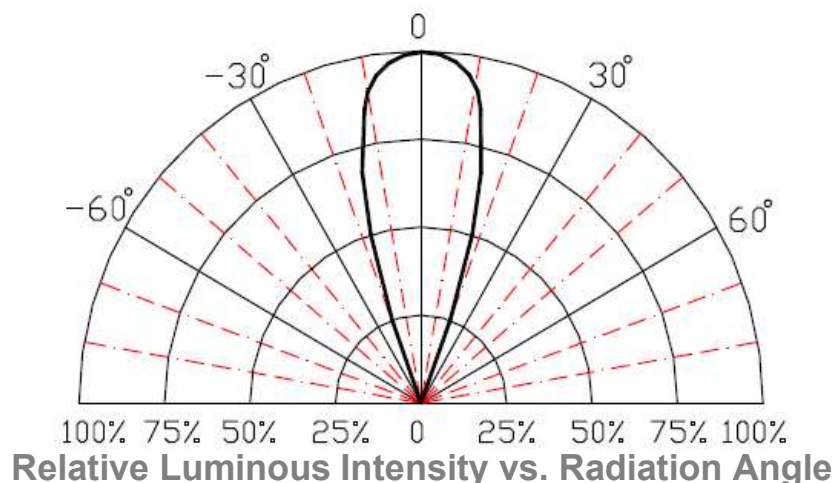
T_A = 25°C & I_F = 20 mA unless otherwise noted

Emitting Color	Forward Voltage (V) ¹			Recommend Forward Current (mA)			Reverse Current (μA)	Dominant Wavelength (nm) ²			Luminous Intensity I _v (mcd) ³			Viewing Angle 2Θ ½ (deg)
	MIN	TYP	MAX	MIN	TYP	MAX	MAX	MIN	TYP	MAX	MIN	TYP	MAX	TYP
Green	2.6	3	3.4	10	15	20	10	517	/	527	20000	40000	/	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



Bivar reserves the right to make changes at any time without notice.

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



Typical Electrical / Optical Characteristics

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

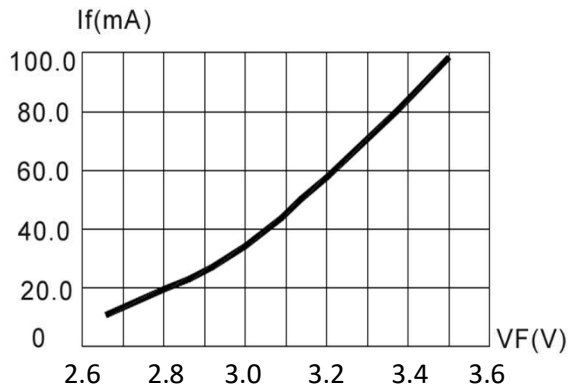


Fig.1 Forward Current vs. Forward Voltage

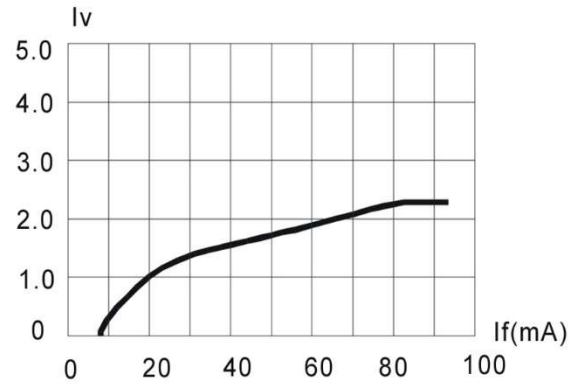


Fig.2 Relative Luminous Intensity vs. Forward Current

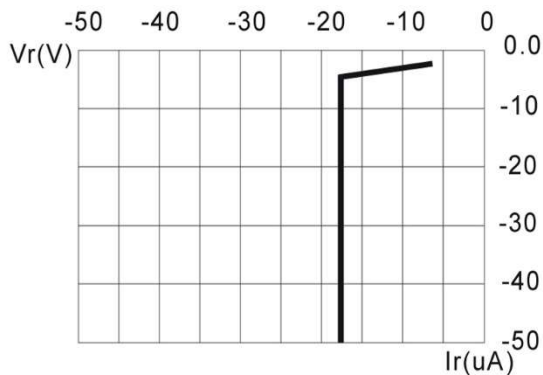


Fig.3 Reverse Current vs. Reverse Voltage

Half Width = $\Delta\lambda_{35\text{nm}}$
Domi WL = 525nm

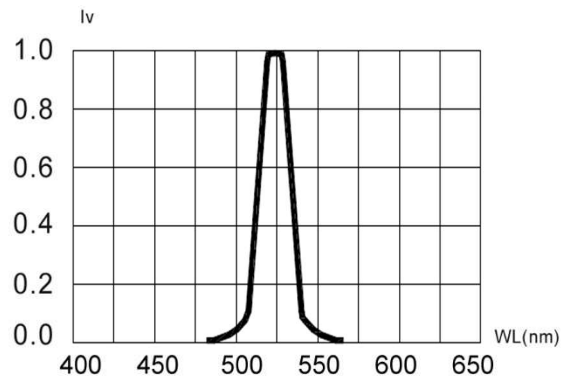


Fig.4 Relative Luminous Intensity vs. Wavelength

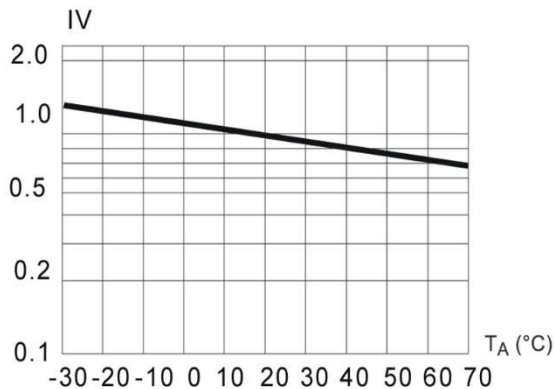


Fig.5 Reverse Luminous Intensity vs. Ambient Temperature

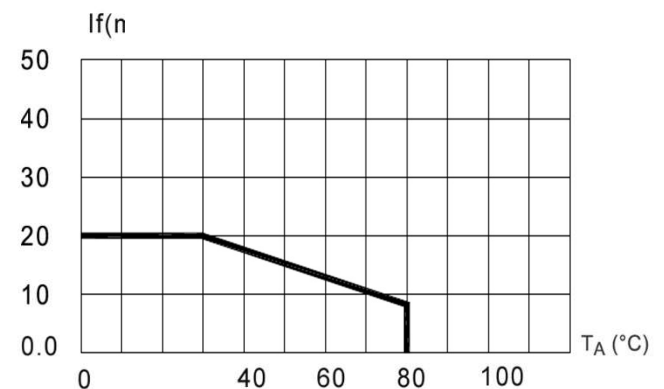


Fig.6 Maximum Forward Current vs. Ambient Temperature

Bivar reserves the right to make changes at any time without notice.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Single Colour LEDs](#) category:

Click to view products by [Bivar](#) manufacturer:

Other Similar products are found below :

[BL-HH033-TRB](#) [4302T3-5VLC](#) [CMD57173](#) [67-21S/R2C-D2030B7L22028Z6/2T](#) [OSG5DSA131A](#) [OSPBDF5A31A](#) [OSYPMF5A31A](#)
[N0R31L82](#) [OSRYMF5A31A](#) [OSG5GP5201A](#) [OSPPD2A131A](#) [OSO5PA3NE2A](#) [803AD2C-1B](#) [OS5OGP5A34A-6.8HZ](#) [OSW58131A-VV](#)
[OS5RAA5A32A-0.5](#) [OS5RKA5C31A](#) [OSR5PA5B61C](#) [OSG5DA3NE2A](#) [OS5YKA5C31A](#) [OSG5DA6231A](#) [OSTLMCA131A](#)
[OSRBMC8162A-VV](#) [OSW5DK8B31B-CRLED14](#) [N0Y62L99](#) [OSR5PA5E31B-CRLED14](#) [OSRY0805C1S](#) [LS Q976.01](#) [Q65112A6091](#) [LB](#)
[Q99G.01-P1R1-35-1-5-R18](#) [LG Q976.01-MGNI-35-1-20-R18](#) [LT Q99G.01-R2T1-25-1-5-R18](#) [LW Q98G.01-R2T1-3K6L-1-5-R18](#)
[Q65112A5230](#) [GA CS8PM1.23-LPLR-W3-0-350-R18](#) [LA A67F-AABB-24-1-30-R33-Z](#) [Q65113A7465](#) [Q65113A7469](#) [Q65113A7466](#) [LA](#)
[E6SF.01-S1T2-1-3X5X+8B5D-24-G3R3-S](#) [LA ETSF.01-S1T2-1-3X5X+8B5D-24-G3R3-S](#) [KM2520SGC09](#) [LS M676-Q2S1-1](#) [Q65110A4007](#)
[Q65110A2151](#) [Q62702P5178](#) [Q62702P5177](#) [150224BS73100](#) [150224YS73100](#) [150224SS73100](#)