Rectangular Package Discrete LED GREEN, 2 x 5 mm, Low Current



R5GDL

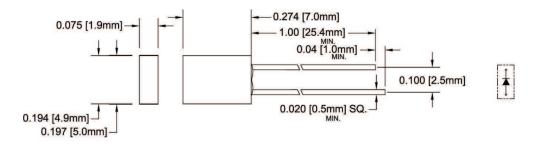
- **Rectangular Package**
- **RoHS Compliant**
- **Diffused Lens**
- Available in Standard Lead Frame style
- Ideal for Status Indication and Bar Graph Displays
- 2 mA Low Operating Current



Bivar Rectangular 2 x 5mm Package Low Current LED is special binned at 2 mA and is ideal for those applications where lower power budget is required such as solar or battery-powered portable devices. The rectangular package makes it ideal for greater indication visibility and creating bar graph displays when arranged in linear LED arrays. Bivar offers diffused LED lens for uniform light output. The Standard Lead frame LED is ideal for vertical spacer assemblies and Right Angle Holder assemblies that require lead bends.

Part Number	Material	Emitted Color	Peak. Wavelength λρ(nm) TYP.	Lens Appearance	Viewing Angle	
R5GDL	GaP/GaP	GREEN	568nm	Green Diffused	120°	

Outline Dimensions

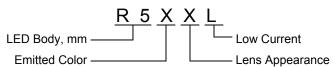


Standard "R5XXL" LED

Recommended Mounting Hole Size = $\emptyset.032^{+.003}_{-.002}$

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

Part Number Designation









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Absolute Maximum Ratings

T_A = 25°C unless otherwise noted

Power Dissipation	10 mW
Forward Current (DC)	7 mA
Peak Forward Current ¹	/ mA
Reverse Voltage	5 V
Operating Temperature Range	-25 ~ +85°C
Storage Temperature Range	-30 ~ +100°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 / Optical Characteristics

 $T_A = 25^{\circ}C \& I_F = 2 \text{ mA}$ unless otherwise noted

Part Number	Forward Voltage (V) ¹		Recommend Forward Current (mA)		Reverse Current (µA)	Dominant		Luminous Intensity Iv (mcd)			Viewing Angle 2 Θ ½ (deg)			
	MIN	TYP	MAX	MIN	TYP	MAX	MAX	MIN	TYP	MAX	MIN	TYP	MAX	TYP
R5GDL	/	2.1	2.8	/	2	/	100	/	1	1	/	1	/	120

Notes: 1. Tolerance of forward voltage: ±0.05V.

2. Tolerance of dominant wavelength: ±1.0nm.

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Typical Electrical / Optical Characteristics

T_A = 25°C unless otherwise noted

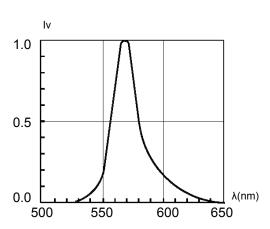


Fig. 1 Relative Luminous Intensity vs. Wavelength

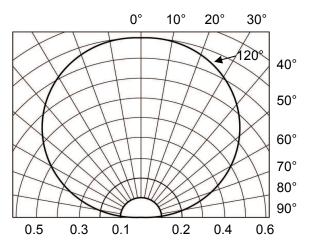


Fig. 2 Directivity Radiation Diagram

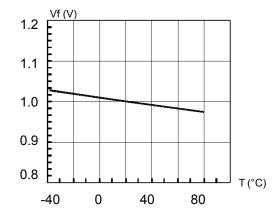


Fig. 3 Forward Voltage vs. Temperature

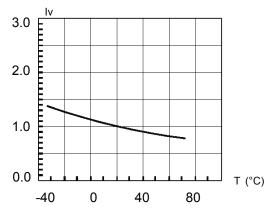
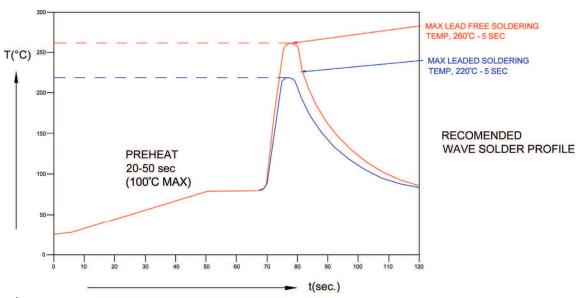


Fig. 4 Relative Luminous Intensity vs. Temperature

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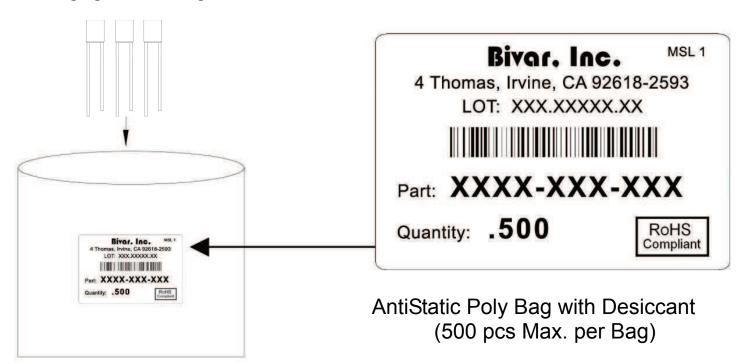


Recommended Soldering Conditions



Recommended Lead Free Wave Soldering Profile					
Preheat Temperature: 100°C Max.	Peak Temperature: 260°C Max.				
Preheat Time: 20 ~ 50 Seconds	Solder Time Above 217°C: 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 reserves the right to make changes at any time without notice