Rectangular Package Discrete LED BLUE, 2 x 7 mm



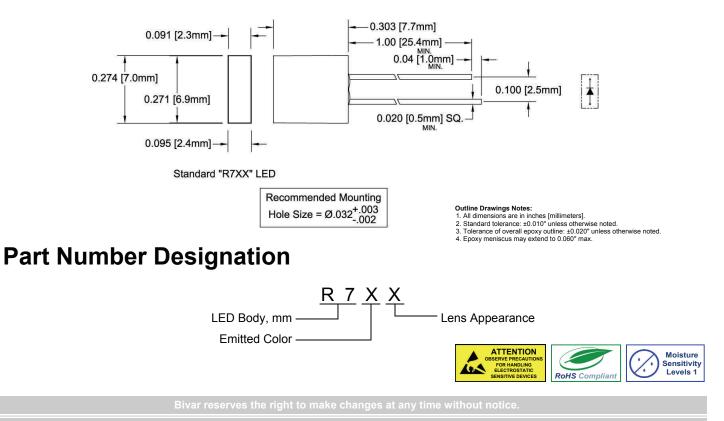
R7BWX

- Rectangular Package
- RoHS Compliant
- Water Clear (C), Diffused (D), and Tinted (T) Lenses
- Available in Standard Lead Frame style
- Ideal for Status Indication and Bar Graph Displays

Bivar Rectangular 2 x 7mm Package LED may be used in almost any application requiring greater indication visibility and is ideal for creating bar graph displays when arranged in linear LED arrays. Bivar offers water clear LED lens for maximum light output, diffused LED lens for uniform light output, and tinted lens to identify the color of the LED. 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 λp(nm) TYP.	Lens Appearance	Viewing Angle	
R7BWC				Water Clear	100°	
R7BWD	GaN/SiC	BLUE	430nm	Blue Diffused	120°	
R7BWT				Blue Tinted	100°	

Outline Dimensions





Absolute Maximum Ratings

 T_A = 25°C unless otherwise noted

Power Dissipation	150 mW
Forward Current (DC)	25 mA
Peak Forward Current ¹	70 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 \leq 0.1 msec. 2. Solder time less than 5 seconds at temperature extreme.

Electrical / Optical Characteristics

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

Part Number	Forward Voltage (V) ¹		Recommend Forward Current (mA)		Reverse Current (µA)	Dominant Wavelength (nm) ²		Luminous Intensity Iv (mcd)			Viewing Angle 2 O ½ (deg)			
	MIN	TYP	MAX	MIN	TYP	MAX	MAX	MIN	TYP	MAX	MIN	TYP	MAX	TYP
R7BWC	/ ·	4.0	4.5 /		20	/	100	/	/	/	/	6	/	100
R7BWD				/				/	/	/	/	4	/	120
R7BWT								/	/	/	/	6	/	100

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

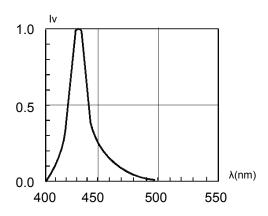
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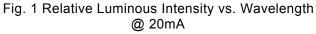


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# **Typical Electrical / Optical Characteristics**

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





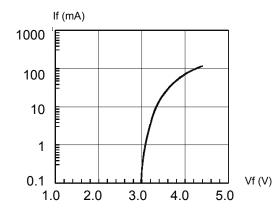
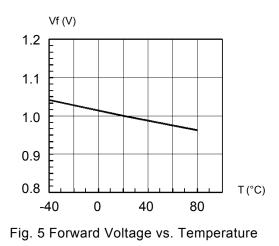


Fig. 3 Forward Current vs. Forward Voltage



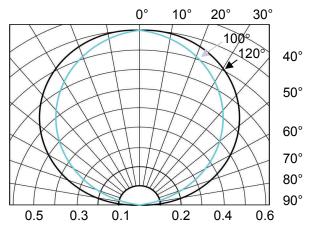


Fig. 2 Directivity Radiation Diagram

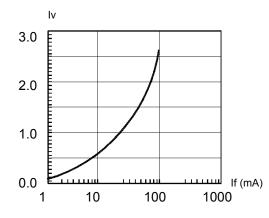
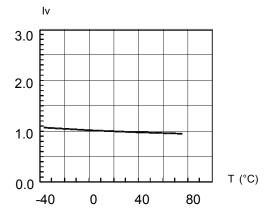


Fig. 4 Relative Luminous Intensity vs. Forward Current Normalize @ 20 mA

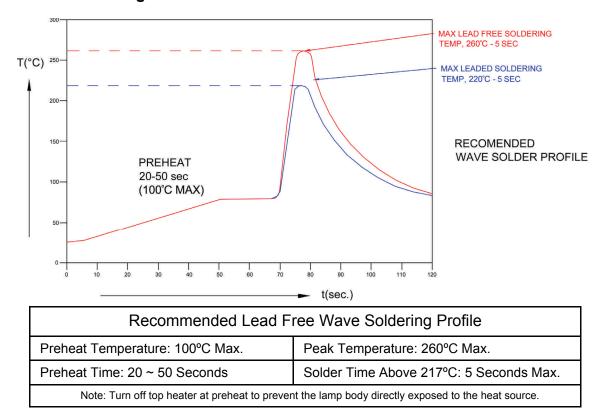




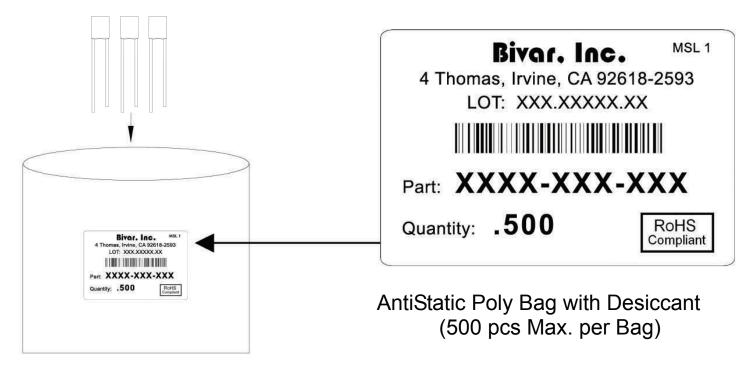
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#### **Recommended Soldering Conditions**



#### Packaging and Labeling Plan



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