Rectangular Package Discrete LED RED, 2 x 3 mm



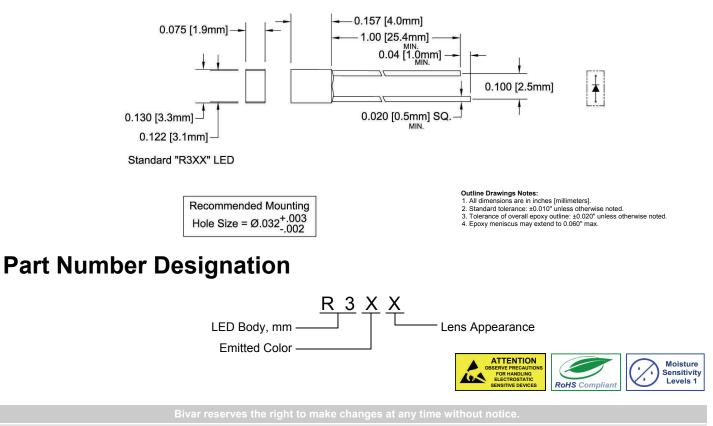
R3H<mark>X</mark>

- 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
- Recommended for Bivar H-480C holder assemblies

Bivar Rectangular 2 x 3mm Package LED may be used in almost any application 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 | |
|-------------|-----------|---------------|---------------------------------|-----------------|---------------|--|
| R3HC | | | | Water Clear | 80° | |
| R3HD | GaAsP/GaP | RED | 625nm | Red Diffused | 100° | |
| R3HT | | | | Red Tinted | 80° | |

Outline Dimensions





Absolute Maximum Ratings

 T_A = 25°C unless otherwise noted

| Power Dissipation | 80 mW |
|--|--------------|
| Forward Current (DC) | 30 mA |
| Peak Forward Current ¹ | 150 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 |
| R3HC | / 2 | 2.0 | .0 2.8 | | 20 | / | 100 | / | / | / | / | 8 | / | 80 |
| R3HD | | | | / | | | | / | / | / | / | 6 | / | 100 |
| R3HT | | | | | | | | / | / | / | / | 8 | / | 80 |

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

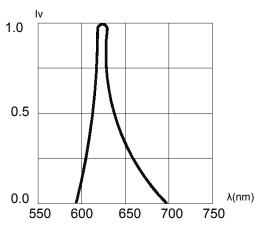
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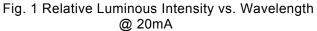


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# **Typical Electrical / Optical Characteristics**

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





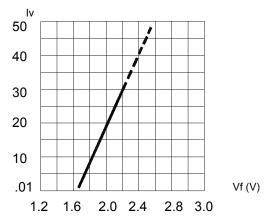
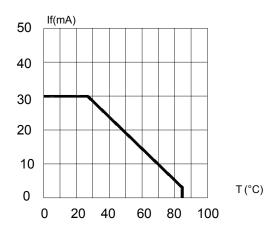
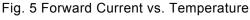
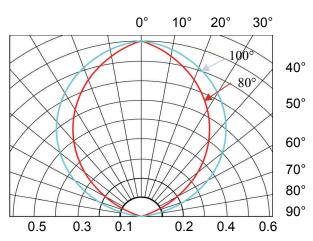


Fig. 3 Relative Intensity (10mA) vs. Forward Voltage









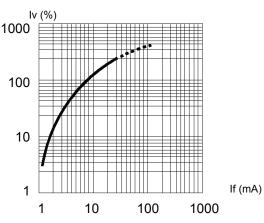
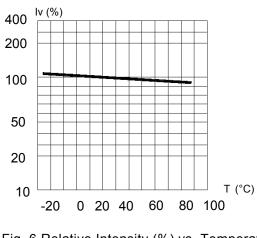
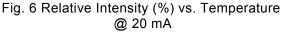


Fig. 4 Relative Luminous Intensity (%) vs. Forward Current

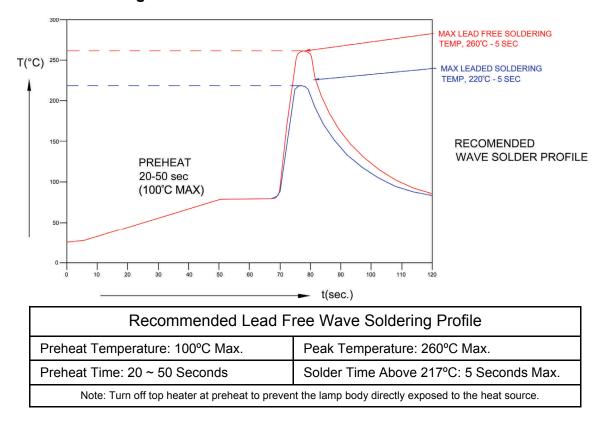




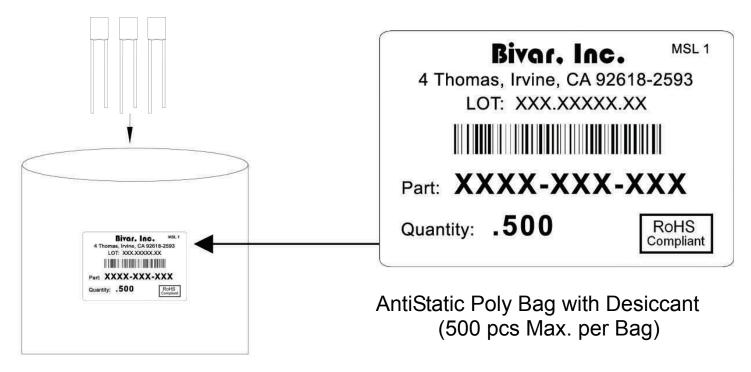
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#### **Recommended Soldering Conditions**



#### Packaging and Labeling Plan



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