3mm (T1) Package Discrete LED RED, Extended Profile



3H<u>X</u>-201-<u>X</u>

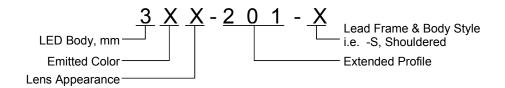
- Industry Standard 3mm (T1) Package
- RoHS Compliant
- Water Clear (C), Diffused (D), and Tinted (T) Lenses
- Available in Shouldered (S) Lead Frame Style
- Ideal for Status Indication and Display



Bivar 3mm T1 Package Extended Profile LED may be used in almost any application and provides additional protrusion for those applications with thicker face plates. 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 Shouldered Lead frame LED is ideal for vertical spacer assemblies without lead bends and also has a built in strain relief feature which is ideal for right angle holder assemblies that require lead bends.

Part Number	Material	Emitted Color	Peak. Wavelength λp(nm) TYP.	Lens Appearance	Viewing Angle	
3HC-201-S				Water Clear	20°	
3HD-201-S	GaAsP/GaP	RED	625nm	Red Diffused	35°	
3HT-201-S				Red Tinted	20°	

Part Number Designation



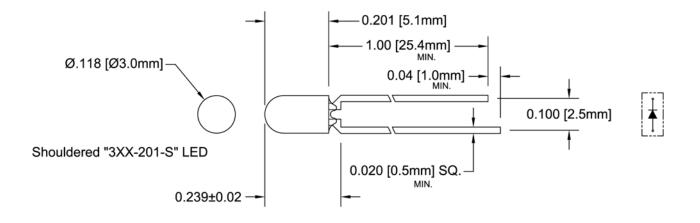


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Outline Dimensions



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Recommended Mounting								
Hole Size = Ø.032 ^{+.003}								

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.



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## **Absolute Maximum Ratings**

 $T_A$  = 25°C unless otherwise noted

| Power Dissipation                                                                | 80 mW        |
|----------------------------------------------------------------------------------|--------------|
| Forward Current ( DC )                                                           | 30 mA        |
| Peak Forward Current <sup>1</sup>                                                | 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 ) <sup>2</sup> | 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

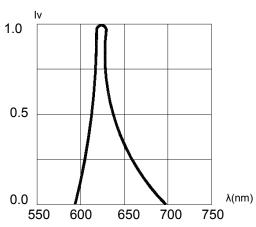
| Part Number | Forward<br>Voltage (V) <sup>1</sup> |     | Recommend<br>Forward<br>Current (mA) |     | Reverse<br>Current<br>(µA) | Dominant<br>Wavelength (nm) <sup>2</sup> |     | Luminous<br>Intensity Iv (mcd) |     |     | Viewing<br>Angle<br>2 O ½<br>(deg) |     |     |     |
|-------------|-------------------------------------|-----|--------------------------------------|-----|----------------------------|------------------------------------------|-----|--------------------------------|-----|-----|------------------------------------|-----|-----|-----|
|             | MIN                                 | TYP | MAX                                  | MIN | TYP                        | MAX                                      | MAX | MIN                            | TYP | MAX | MIN                                | TYP | MAX | TYP |
| 3HC-201-S   |                                     |     |                                      |     |                            |                                          |     | /                              | /   | /   | /                                  | 50  | /   | 20  |
| 3HD-201-S   | /                                   | 2.0 | 2.8                                  | /   | 20                         | /                                        | 100 | /                              | /   | /   | /                                  | 30  | /   | 35  |
| 3HT-201-S   |                                     |     |                                      |     |                            |                                          |     | /                              | /   | /   | /                                  | 50  | /   | 20  |

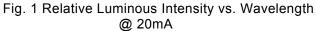
Notes: 1. Tolerance of forward voltage : ±0.05V. 2. Tolerance of dominant wavelength : ±1.0nm.



# **Typical Electrical / Optical Characteristics**

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





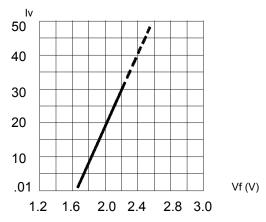
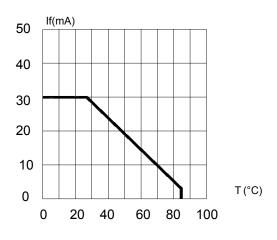
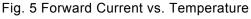
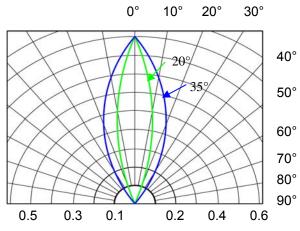


Fig. 3 Relative Intensity (10mA) vs. Forward Voltage









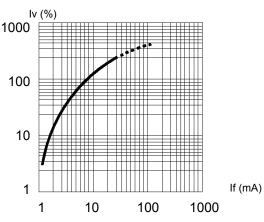
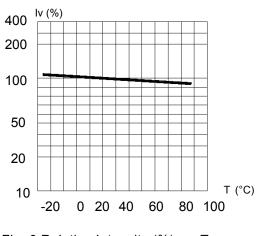
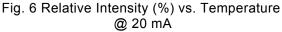


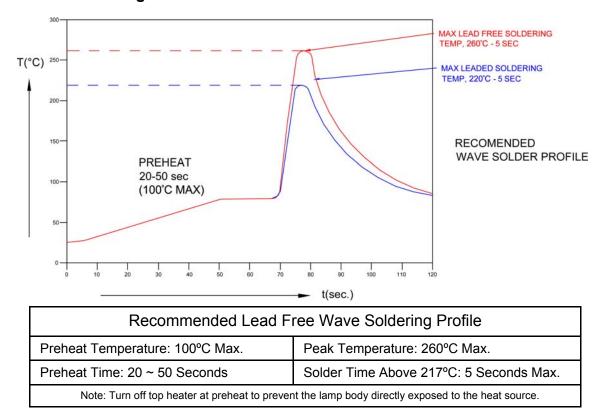
Fig. 4 Relative Luminous Intensity (%) vs. Forward Current



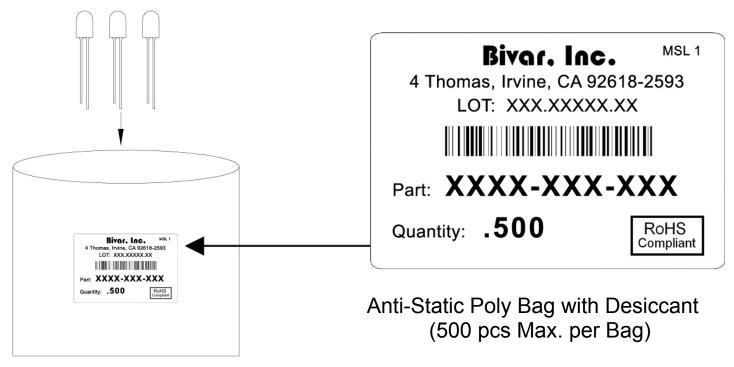




#### **Recommended Soldering Conditions**



#### Packaging and Labeling Plan



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