# 5mm (T1 <sup>3</sup>⁄<sub>4</sub>) Package Discrete LED YELLOW, Super Bright



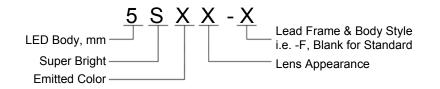
#### 5SY<u>X</u>-<u>X</u>

- Industry Standard 5mm (T1 <sup>3</sup>/<sub>4</sub>) Package
- RoHS Compliant
- Water Clear (C), Diffused (D), and Tinted (T) Lenses
- Available in Flange (F) and Standard (Blank) Lead Frame styles
- Up to 600 mcd Luminous Intensity at 20 mA
- Ideal for Status Indication and Display

Bivar 5mm T1 <sup>3</sup>/<sub>4</sub> Package Super Bright LED is ideal for those applications where higher ambient lighting exists such as sign boards, security system displays, and medical applications. 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 Flanged LED is ideal for Panel Mount Clip & Ring assemblies and the Standard Lead frame LED is ideal for vertical spacer assemblies without lead bends.

Part Number	Material	Emitted Color	Peak. Wavelength λp(nm) TYP.	Lens Appearance	Viewing Angle
5SYC-F		VELLOW	500nm	Water Clear	35°
5SYD-F				Yellow Diffused	40°
5SYT-F				Yellow Tinted	35°
5SYC	AlGaInP	TELLOW	YELLOW 590nm Water Clear		35°
5SYD				Yellow Diffused	45°
5SYT				Yellow Tinted	35°

#### **Part Number Designation**





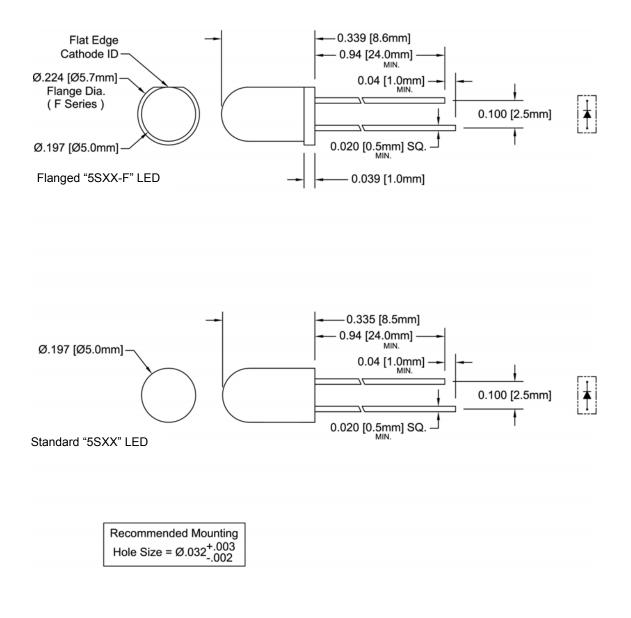
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## 5mm (T1 <sup>3</sup>/<sub>4</sub>) Package Discrete LED YELLOW, Super Bright



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#### **Outline Dimensions**



 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.



## **Absolute Maximum Ratings**

 $T_A$  = 25°C unless otherwise noted

Power Dissipation	85 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, Dules Width < 0,1 mass 2, Solder time less than 5 accord	de et temperature extreme

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) <sup>1</sup>		Recommend Forward Current (mA)		Reverse Current (µA)	Dominant Wavelength (nm) <sup>2</sup>		Luminous Intensity Iv (mcd)			Viewing Angle 2 O ½ (deg)			
	MIN	TYP	MAX	MIN	TYP	MAX	MAX	MIN	TYP	MAX	MIN	TYP	MAX	TYP
5SYC-F		2.0		/	20	/	100	/	1	/	/	600	/	35
5SYD-F	/		2.4					/	1	/	/	150	/	40
5SYT-F								/	1	/	/	600	/	35
5SYC	/ 2.0	/ 2.0	2.0 2.4		/ 20	/	100	/	1	/	/	600	/	35
5SYD				/				/	/	/	/	300	/	45
5SYT								/	/	/	/	600	/	35

Notes: 1. Tolerance of forward voltage : ±0.05V. 2. To

2. Tolerance of dominant wavelength : ±1.0nm.

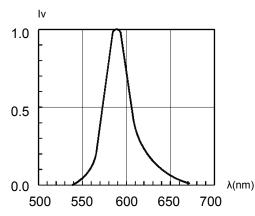
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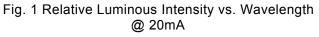
Bivar, Inc. — 4 Thomas, Irvine, California 92618, U.S.A. Phone: (949) 951-8808 Fax: (949) 951-3974 E-mail: bivar@bivar.com Web: www.bivar.com



## **Typical Electrical / Optical Characteristics**

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





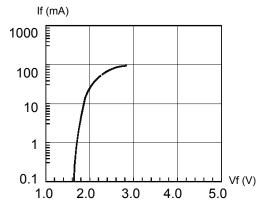
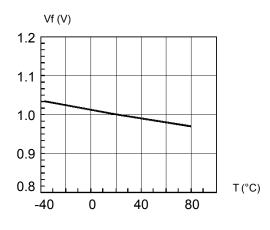


Fig. 3 Forward Current vs. Forward Voltage





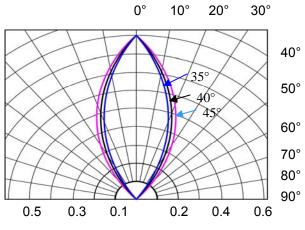


Fig. 2 Directivity Radiation Diagram

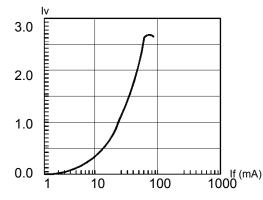
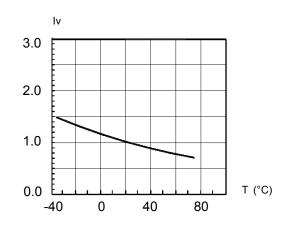
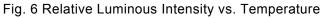


Fig. 4 Relative Luminous Intensity vs. Forward Current Normalize @ 20 mA

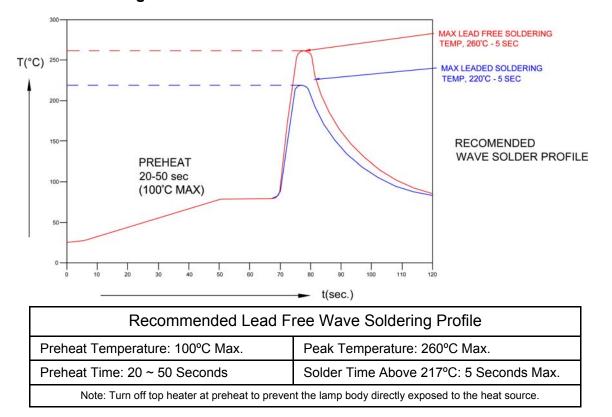




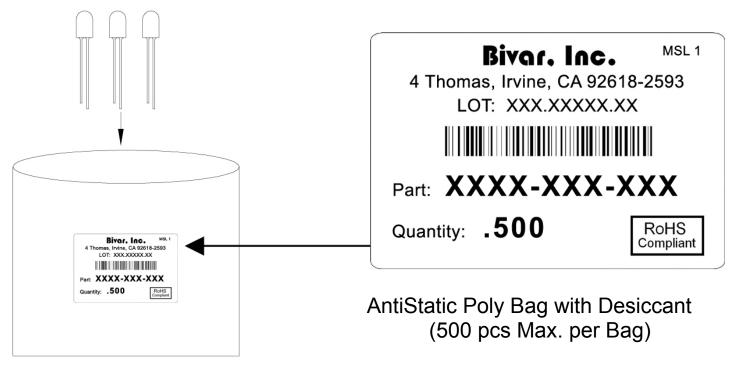
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#### **Recommended Soldering Conditions**



#### Packaging and Labeling Plan



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

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