

3mm (T1) Package Discrete LED SUPER YELLOW, Extended Profile

BIVAR

3SYX-201-X

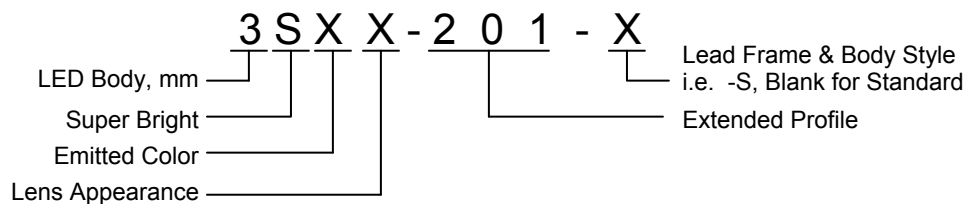
- ◆ Industry Standard 3mm (T1) Package
- ◆ RoHS Compliant
- ◆ Water Clear (C), and Diffused (D) Lenses
- ◆ Available in Standard (Blank) and Shouldered (S) Lead Frame styles
- ◆ Up to 50 mcd Luminous Intensity at 20 mA
- ◆ Ideal for Status Indication and Display



Bivar 3mm T1 Package Extended Profile LED may be used in higher ambient lighting applications and provides additional protrusion for those applications with thicker face plates. Bivar offers water clear LED lens for maximum light output, and diffused LED lens for uniform light output. The Standard Lead frame LED is ideal for vertical spacer assemblies without lead bends and the Shouldered Lead frame LED has a built in strain relief feature which is ideal for Right Angle Holder assemblies that require lead bends. A long lead version is also available with a "-LL" suffix added to the part numbers.

Part Number	Material	Emitted Color	Peak. Wavelength λ_p (nm) TYP.	Lens Appearance	Viewing Angle
3SYC-201	GaAsP/GaP	YELLOW	590nm	Water Clear	20°
3SYD-201				Yellow Diffused	35°
3SYC-201-S				Water Clear	20°
3SYD-201-S				Yellow Diffused	35°

Part Number Designation

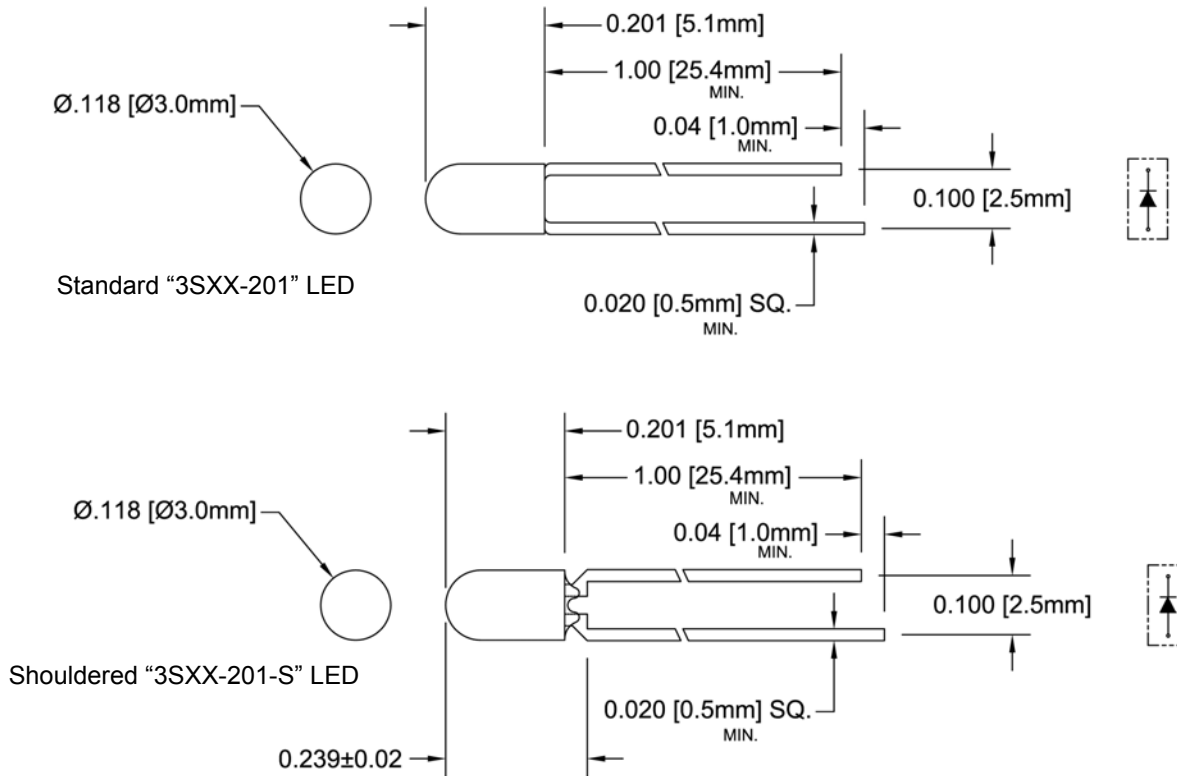


Bivar reserves the right to make changes at any time without notice.

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Outline Dimensions



Recommended Mounting
Hole Size = $\text{Ø}0.032^{+0.003}_{-0.002}$

NOTE: Add suffix -LL for long lead.
Changes 1.00 Min. to 1.57 Min.
Standard Lead Only

- 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

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

Power Dissipation	85 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

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

Part Number	Forward Voltage (V) ¹			Recommend Forward Current (mA)			Reverse Current (μA)	Dominant Wavelength (nm) ²			Luminous Intensity I_v (mcd)			Viewing Angle $2\theta_{1/2}$ (deg)
	MIN	TYP	MAX	MIN	TYP	MAX	MAX	MIN	TYP	MAX	MIN	TYP	MAX	TYP
3SYC-201	/	2.0	2.8	/	20	/	100	/	/	/	/	50	/	20
3SYD-201								/	/	/	/	30	/	35
3SYC-201-S	/	2.0	2.8	/	20	/	100	/	/	/	/	50	/	20
3SYD-201-S								/	/	/	/	30	/	35

Notes: 1. Tolerance of forward voltage : $\pm 0.05\text{V}$. 2. Tolerance of dominant wavelength : $\pm 1.0\text{nm}$.

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Typical Electrical / Optical Characteristics

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

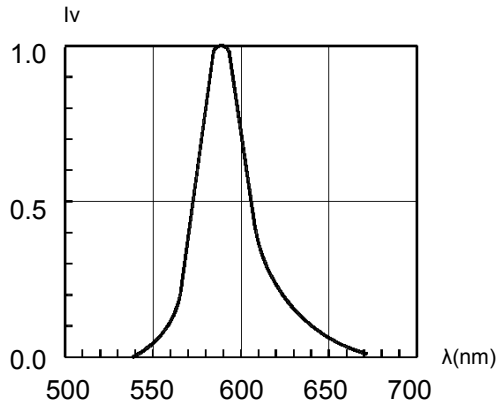


Fig. 1 Relative Luminous Intensity vs. Wavelength @ 20mA

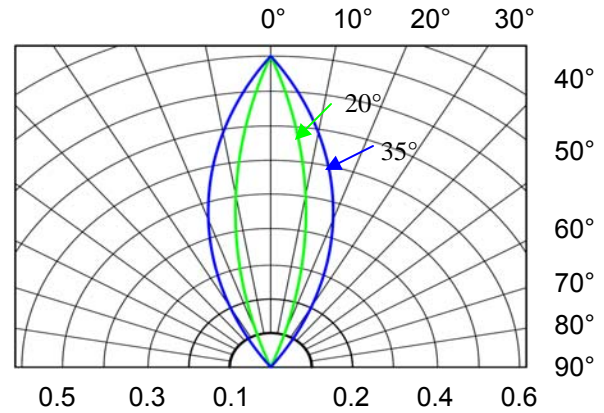


Fig. 2 Directivity Radiation Diagram

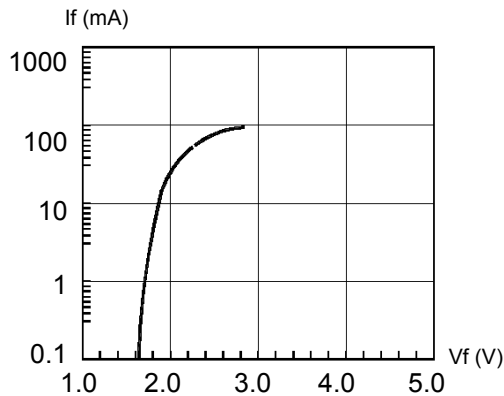


Fig. 3 Forward Current vs. Forward Voltage

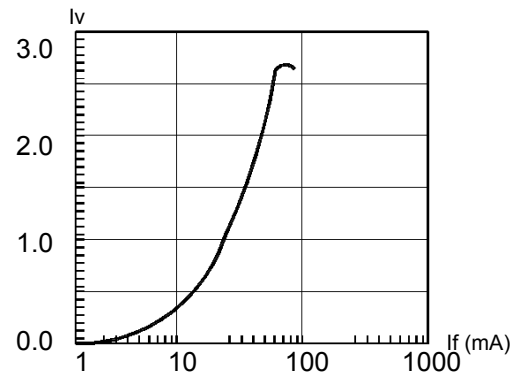


Fig. 4 Relative Luminous Intensity vs. Forward Current Normalize @ 20 mA

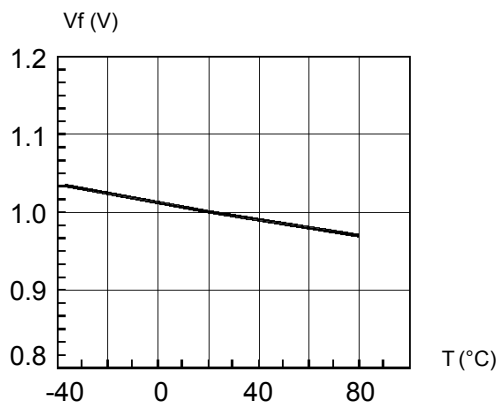


Fig. 5 Forward Voltage vs. Temperature

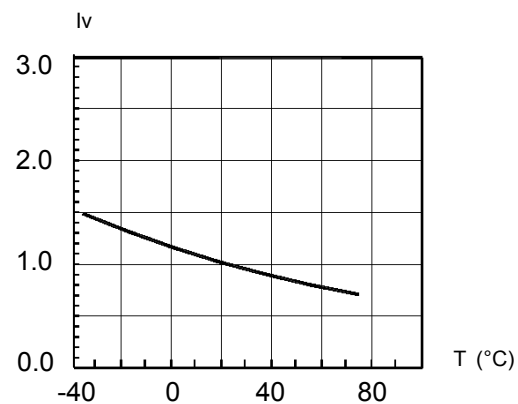


Fig. 6 Relative Luminous Intensity vs. Temperature

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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, Inc. MSL 1

4 Thomas, Irvine, CA 92618-2593
LOT: XXX.XXXXX.XX



Part: **XXXX-XXX-XXX**

Quantity: **.500**

RoHS
Compliant

AntiStatic Poly Bag with Desiccant
(500 pcs Max. per Bag)

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