3SR<mark>X</mark>-X

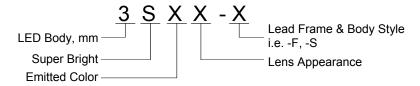
- ♦ Industry Standard 3mm (T1) Package
- **♦** RoHS Compliant
- Water Clear (C), Diffused (D), and Tinted (T) Lenses
- ◆ Available in Flange (F) and Shouldered (S) Lead frame styles
- Up to 60 mcd Luminous Intensity at 20 mA
- ♦ Ideal for Status Indication and Display
- Recommended for Bivar Flexible Light Pipe assemblies



Bivar 3mm T1 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. 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 λρ(nm) TYP.	Lens Appearance	Viewing Angle
3SRC-F	GaAlAs/GaAs	RED	645nm	Water Clear	20°
3SRD-F				Red Diffused	35°
3SRT-F				Red Tinted	20°
3SRC-S				Water Clear	30°
3SRD-S				Red Diffused	40°
3SRT-S				Red Tinted	30°

Part Number Designation



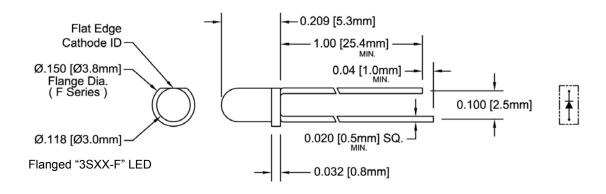


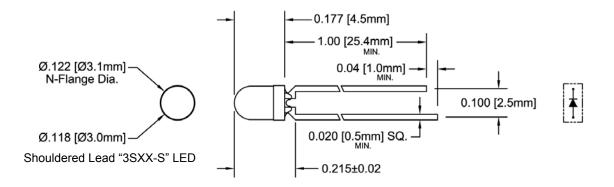






Outline Dimensions





Recommended Mounting Hole Size = $\emptyset.032^{+.003}_{-.002}$

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	70 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 ≤ 0.1 msec. 2. Solder time less than 5 seconds at temperature extreme.

Electrical / Optical Characteristics

 $T_A = 25$ °C & $I_F = 20$ 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 Θ ½ (deg)			
	MIN	TYP	MAX	MIN	TYP	MAX	MAX	MIN	TYP	MAX	MIN	TYP	MAX	TYP
3SRC-F								/	1	1	1	60	/	20
3SRD-F	/	1.7	2.4	/	20	/	100	/	1	1	1	40	/	35
3SRT-F								/	1	1	1	60	/	20
3SRC-S								/	1	1	/	60	/	30
3SRD-S	/	1.7	2.4	/	20	/	100	/	1	1	1	40	/	40
3SRT-S								/	1	1	1	60	/	30

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

2. Tolerance of dominant wavelength: ±1.0nm.



Typical Electrical / Optical Characteristics

T_A = 25°C unless otherwise noted

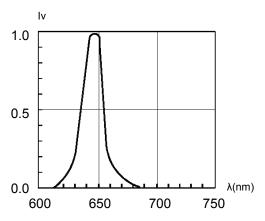


Fig. 1 Relative Luminous Intensity vs. Wavelength @ 20mA

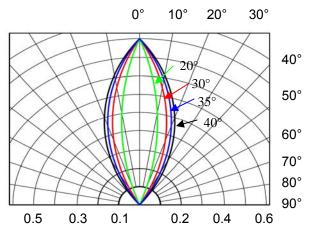


Fig. 2 Directivity Radiation Diagram

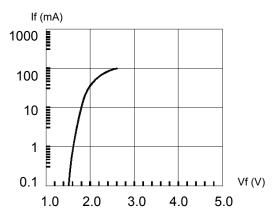


Fig. 3 Forward Current vs. Forward Voltage

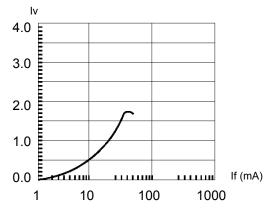


Fig. 4 Relative Luminous Intensity vs. Forward Current Normalize @ 20 mA

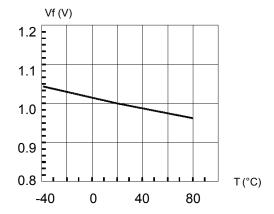


Fig. 5 Forward Voltage vs. Temperature

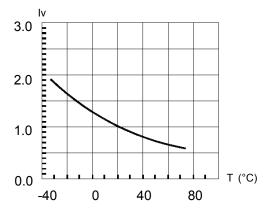
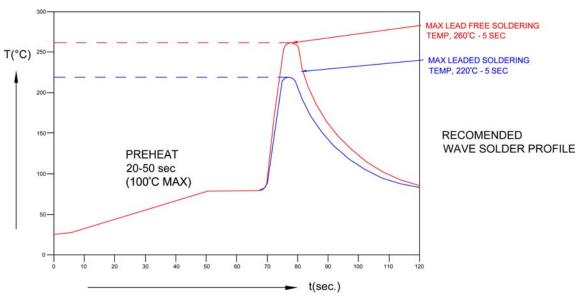


Fig. 6 Relative Luminous Intensity vs. Temperature

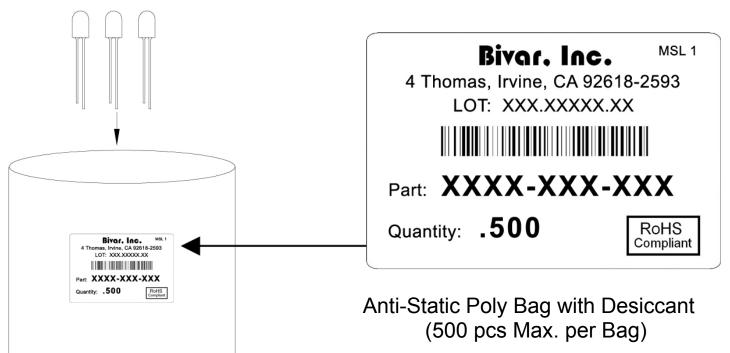


Recommended Soldering Conditions



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 reserves the right to make changes at any time without notice

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