5mm (T1 ³⁄₄) Package Discrete LED RED, Super Bright



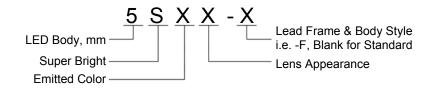
5SR<mark>X</mark>-X

- Industry Standard 5mm (T1 ³/₄) Package
- RoHS Compliant
- Water Clear (C), Diffused (D), and Tinted (T) Lenses
- Available in Flange (F) and Standard (Blank) Lead Frame styles
- Up to 60 mcd Luminous Intensity at 20 mA
- Ideal for Status Indication and Display

Bivar 5mm T1 ³/₄ 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 λρ(nm) TYP.	Lens Appearance	Viewing Angle
5SRC-F	GaAlAs/GaAs	RED		Water Clear	35°
5SRD-F			645nm	Red Diffused	40°
5SRT-F				Red Tinted	35°
5SRC				Water Clear	35°
5SRD				Red Diffused	45°
5SRT				Red Tinted	35°

Part Number Designation



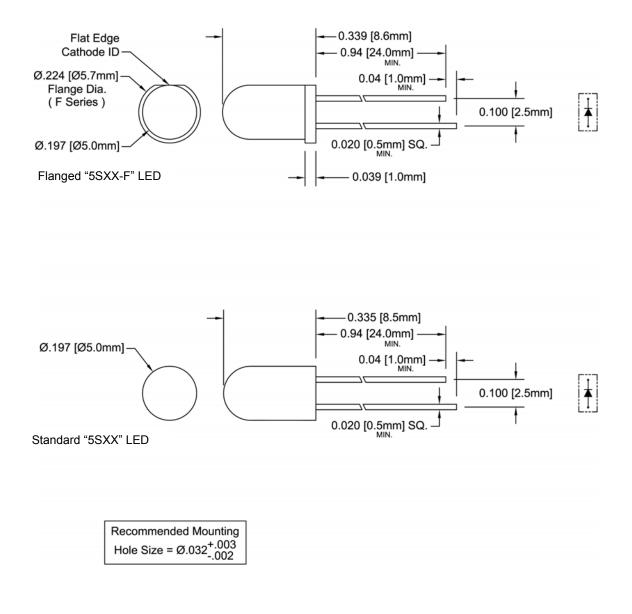


Bivar reserves the right to make changes at any time without notice.



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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		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 o	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

 $T_A = 25^{\circ}C \& I_F = 20 \text{ mA}$ 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
5SRC-F		/ 1.7	2.4	/	20	/	100	/	/	/	/	60	/	35
5SRD-F	/							/	/	/	/	40	/	40
5SRT-F								/	/	/	/	60	/	35
5SRC	/ 1.7	/ 1.7	2.4 /		20	/	100	/	/	/	/	60	/	35
5SRD				/				/	/	/	/	40	/	45
5SRT							/	1	/	/	60	/	35	

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

2. Tolerance of dominant wavelength : ±1.0nm.

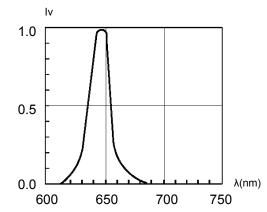
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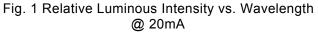
Bivar, Inc. — 4 Thomas, Irvine, California 92618, U.S.A. Phone: (949) 951-8808 Fax: (949) 951-3974 E-mail: bivar@bivar.com Web: www.bivar.com



Typical Electrical / Optical Characteristics

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





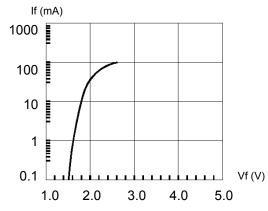
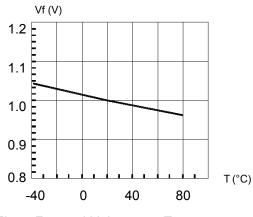
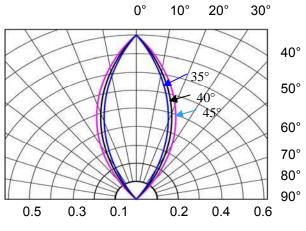


Fig. 3 Forward Current vs. Forward Voltage









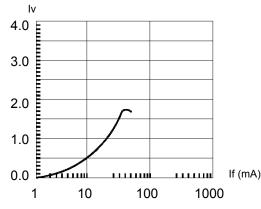


Fig. 4 Relative Luminous Intensity vs. Forward Current Normalize @ 20 mA

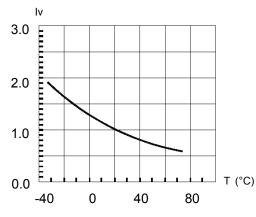
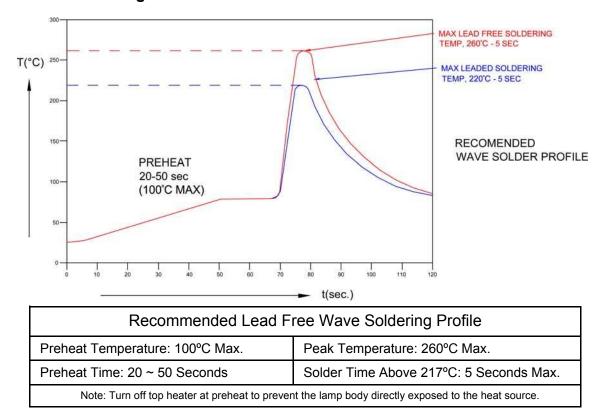


Fig. 6 Relative Luminous Intensity vs. Temperature

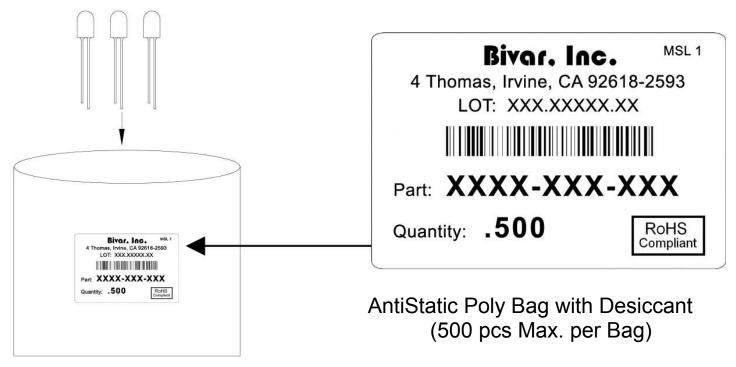
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Recommended Soldering Conditions



Packaging and Labeling Plan



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