

3R<mark>X</mark>12V-<mark>X</mark>

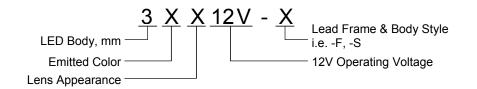
- Industry Standard 3mm (T1) Package
- RoHS Compliant
- Water Clear (C) and Diffused (D) Lenses
- Available in Flange (F) and Shouldered (S) Lead Frame styles
- 12V Operating Voltage
- Ideal for Status Indication and Display



Bivar 3mm T1 Package 12V LED is ideal for applications equipped with regular 12V power supplies such as servers and computer peripherals, and applications operated by 12V batteries such as automobiles and boats. Bivar offers water clear LED lens for maximum light output and diffused LED lens for uniform light output. 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 λp(nm) TYP.	Lens Appearance	Viewing Angle		
3RC12V-F		RED		Water Clear	20°		
3RD12V-F	GaP/GaP		700.000	Red Diffused	35°		
3RC12V-S			700nm	Water Clear	30°		
3RD12V-S				Red Diffused	40°		

Part Number Designation

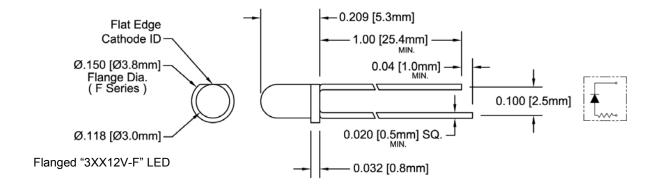


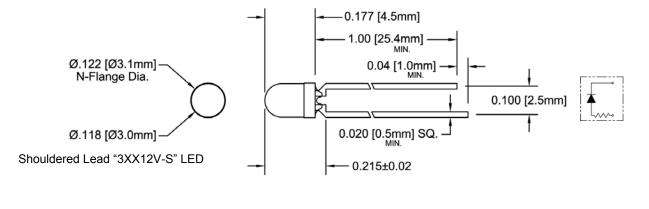




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Outline Dimensions





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.

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

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



Absolute Maximum Ratings

 T_A = 25°C unless otherwise noted

Power Dissipation	/ mW
Forward Current (DC)	10mA
Peak Forward Current ¹	12 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

 $T_A = 25^{\circ}C \& Vf = 12V$ 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
3RC12V-F	/	/	12	/ /	,	1	100	/	/	/	/	6	/	20
3RD12V-F					/			/	/	/	/	2	/	35
3RC12V-S	/	/ /	12 /	1	/	,	100	/	/	/	/	6	/	30
3RD12V-S				1	, ,	/		/	/	/	/	2	/	40

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

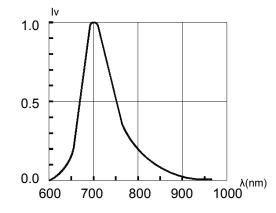
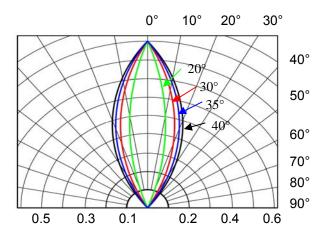


Fig. 1 Relative Luminous Intensity vs. Wavelength





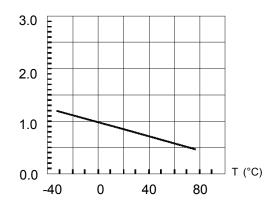
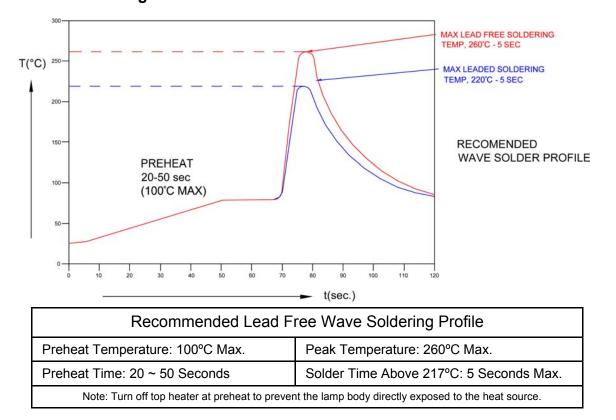


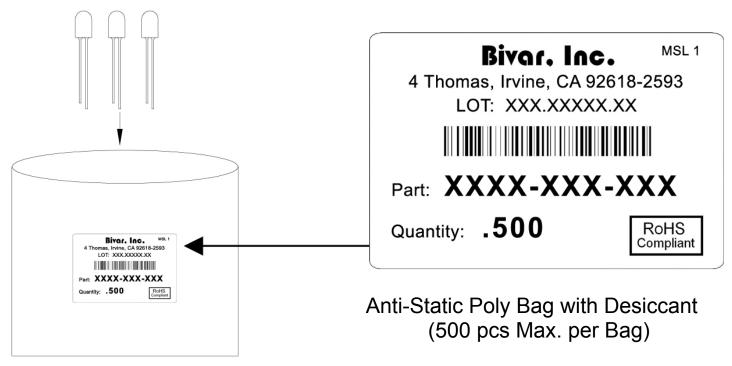
Fig. 3 Relative Luminous Intensity vs. Temperature



Recommended Soldering Conditions



Packaging and Labeling Plan



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