5mm (T1 ¾) Package Discrete LED AMBER, 12V

BIVAR



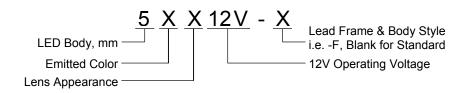
- ♦ Industry Standard 5mm (T1 ¾) Package
- **♦** RoHS Compliant
- ♦ Water Clear (C)
- Available in Flange (F) and Standard (Blank) Lead Frame styles
- ♦ 12V Operating Voltage
- Ideal for Status Indication and Display



Bivar 5mm T1 ¾ 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. 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	
5AC12V-F	GaAsP/GaP	AMBER	605nm	Water Clear	35°	
5AC12V			0031111	Water Clear	35°	

Part Number Designation





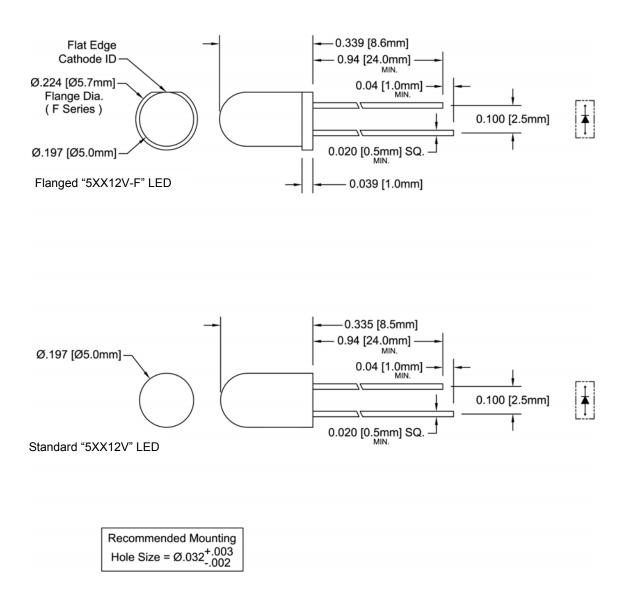




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Outline Dimensions



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.

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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 ≤ 0.1 msec.

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		Luminous Intensity Iv (mcd)			Viewing Angle 2 Θ ½ (deg)			
	MIN	TYP	MAX	MIN	TYP	MAX	MAX	MIN	TYP	MAX	MIN	TYP	MAX	TYP
5AC12V-F	1	/	12	/	1	/	100	1	1	1	1	40	/	35
5AC12V	/	/	12	/	/	1	100	1	1	1	1	40	/	35

Notes: 1. Tolerance of forward voltage: ±0.05V. 2. Tolerance of dominant wavelength: ±1.0nm.

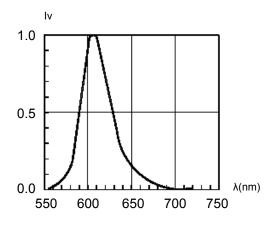
^{2.} Solder time less than 5 seconds at temperature extreme.

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Typical Electrical / Optical Characteristics

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



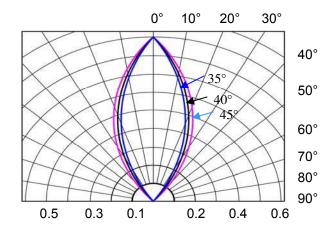


Fig. 1 Relative Luminous Intensity vs. Wavelength

Fig. 2 Directivity Radiation Diagram

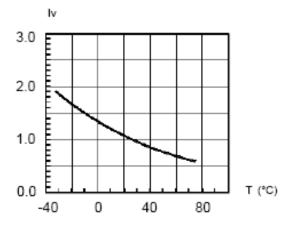
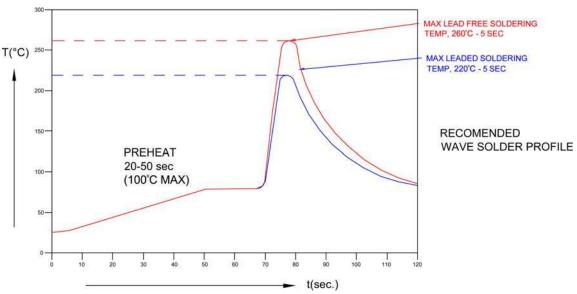


Fig. 3 Relative Luminous Intensity vs. Temperature

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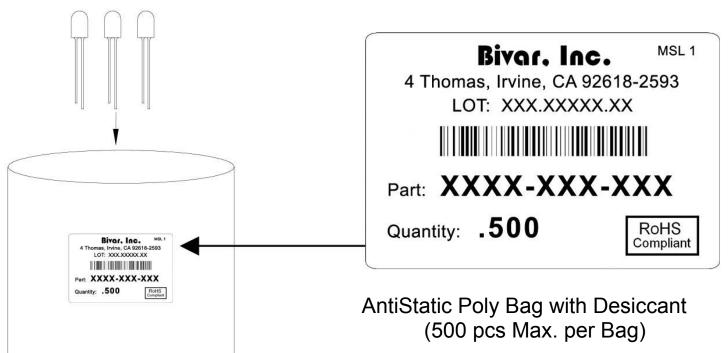


Recommended Soldering Conditions



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 reserves the right to make changes at any time without notice