3mm (T1) Package Discrete LED RED/GREEN, Bi-Color



3SBC-<mark>X</mark>

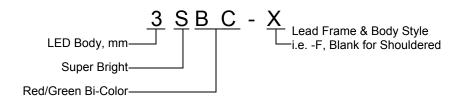
- Industry Standard 3mm (T1) Package
- RoHS Compliant
- 2-Lead Super Bright Bi-Color LED
- White Diffused Lens
- Available in Flange (F) and Shouldered (Blank) Lead Frame styles
- Ideal for Status Indication and Display



Bivar 3mm T1 Package 2-Lead Bi-Color LED is ideal for those applications where dual signals need to be displayed at the same location such as standby-on indication for server or computer peripherals. Bivar offers white diffused LED lens for uniform light output and the 2-lead package simplifies the circuitry design where a reverse voltage is available. The Flanged LED is ideal for Panel Mount Clip & Ring assemblies 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 λp(nm) TYP.	Lens Appearance	Viewing Angle		
3SBC-F	GaAlAs/GaAs	RED	645nm		459		
	GaP/GaP	GREEN	568nm	White Diffused			
3SBC	GaAlAs/GaAs	RED	645nm	White Diffused	45°		
	GaP/GaP	GREEN	568nm				

Part Number Designation



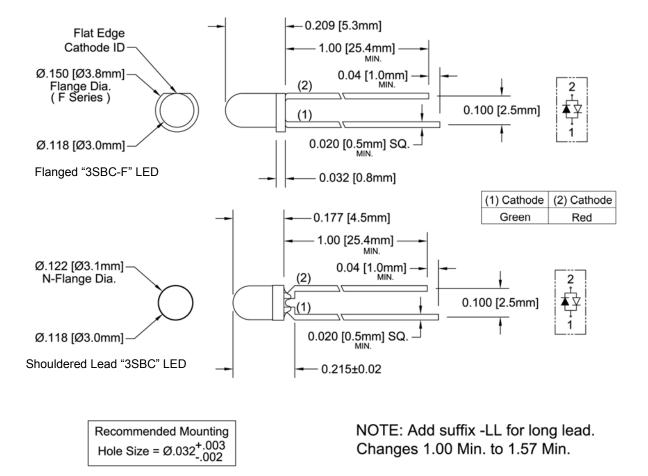


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3mm (T1) Package Discrete LED **RED/GREEN**, Bi-Color



Outline Dimensions



Outline Drawings Notes: 1. All dimensions are in inches [millimeters].

Standard tolerance: ±0.010° unless otherwise noted.
Tolerance of overall epoxy outline: ±0.020° unless otherwise noted.
Epoxy meniscus may extend to 0.060° max.



Absolute Maximum Ratings

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

Power Dissipation	Red - 70 mW Green - 80 mW
Forward Current (DC)	30 mA
Peak Forward Current ¹	150 mA
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

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

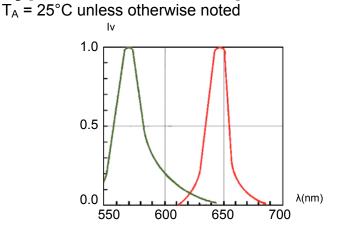
Part Number	Emitted Color	Forward Voltage (V) ¹		Recommend Forward Current (mA)		Reverse Current (µA)	Dominant Wavelength (nm) ²		Luminous Intensity Iv (mcd)			Viewing Angle 2 O ¹ / ₂ (deg)			
		MIN	TYP	MAX	MIN	TYP	MAX	MAX	MIN	TYP	MAX	MIN	TYP	MAX	TYP
3SBC-F	Red	/	1.7	2.4	/	20	/	/	/	/	/	/	12	/	45
	Green	/	2.1	2.8					/	/	/	/	8	/	
3SBC	Red	/	1.7	2.4	/	20	/	/	/	/	/	/	12	/	45
	Green	/	2.1	2.8					. /	/	/	/	8	/	

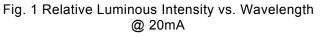
Notes: 1. Tolerance of forward voltage : ±0.05V. 2. Tolerance of dominant wavelength : ±1.0nm.

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Typical Electrical / Optical Characteristics





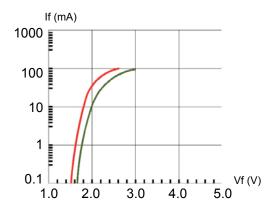


Fig. 3 Forward Current vs. Forward Voltage

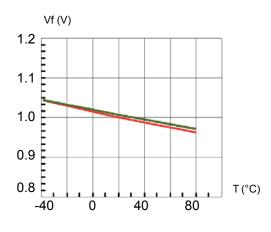


Fig. 5 Forward Voltage vs. Temperature

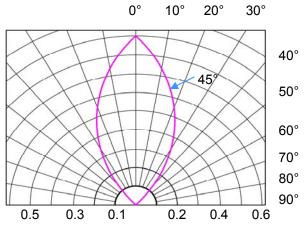


Fig. 2 Directivity Radiation Diagram

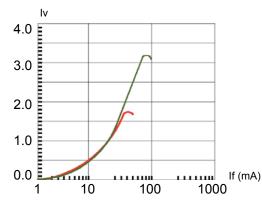
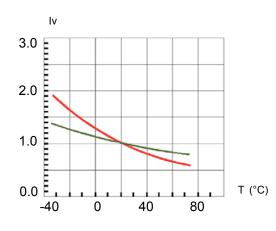
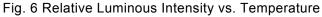


Fig. 4 Relative Luminous Intensity vs. Forward Current Normalize @ 20 mA

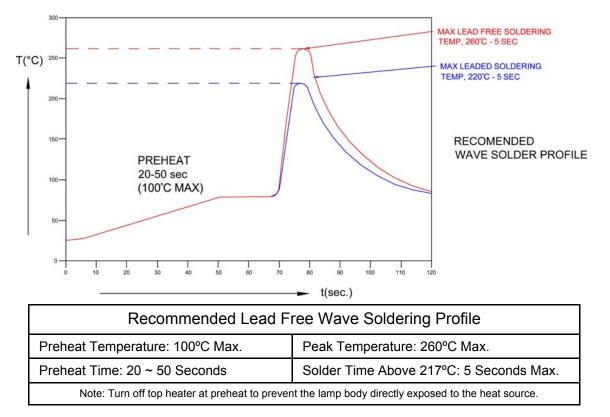




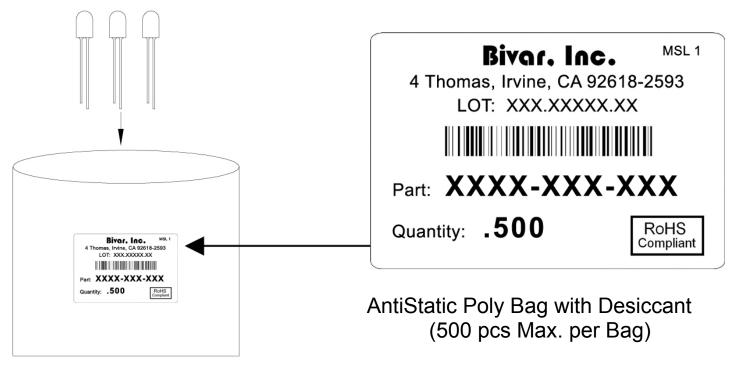
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Recommended Soldering Conditions



Packaging and Labeling Plan



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