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



3SBCC-R/Y-X

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

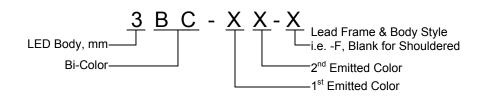


Bivar 3mm T1 Package Bi-Color LED is ideal for those applications where dual signals need to be displayed at the same location such as standby-on indication for server or computer peripherals. Bivar offers water clear LED lens for maximum light output and the 2-lead package simplifies the circuitry design 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.

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Part Number	Material	Emitted Color	Emitted Color Peak. Wavelength λp(nm) TYP.		Viewing Angle		
3SBCC-R/Y-F	GaAlAs/GaAs	RED	645nm				
	AlGaInP	YELLOW	590nm	Water Clear	20°		
3SBCC-R/Y	GaAlAs/GaAs	RED	645nm	Water Clear	20°		
	AlGaInP	YELLOW	590nm				

Part Number Designation





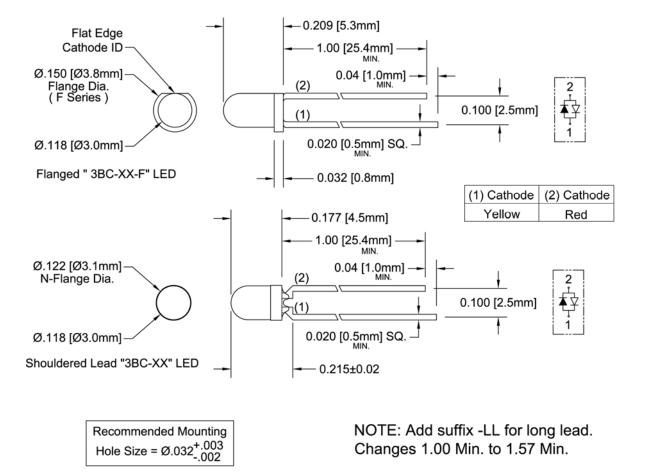
Bivar reserves the right to make changes at any time without notice.

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Outline Dimensions



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

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 Yellow - 85 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		orwar Itage (F	comm forwar frent (ď	Reverse Current (µA)		omina length	-	Luminous Intensity Iv (mcd)		Viewing Angle 2 O ¹ / ₂ (deg)	
		MIN	ТҮР	MAX	MIN	TYP	MAX	MAX	MIN	TYP	MAX	MIN	TYP	MAX	ТҮР
3SBCC-	Red	/	1.7	2.4	/	20	/	/	/	/	/	/	100	/	20
R/Y-F	Yellow	/	2.0	2.4					/	/	/	/	300	/	
3SBCC-	Red	/	1.7	2.4	,	20	20 /	/	/	/	/	/	100	/	20
R/Y	Yellow	/	2.0	2.4	_				/	/	/	/	300	/	

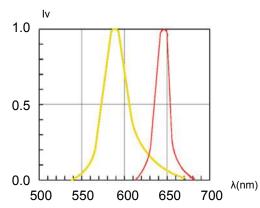
Notes: 1. Tolerance of forward voltage : ±0.05V. 2. Tolerance of dominant wavelength : ±1.0nm.

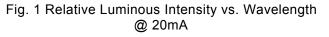
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Typical Electrical / Optical Characteristics

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





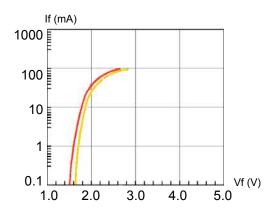
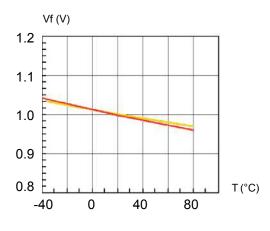
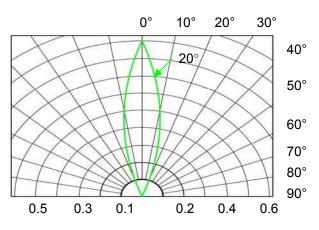


Fig. 3 Forward Current vs. Forward Voltage









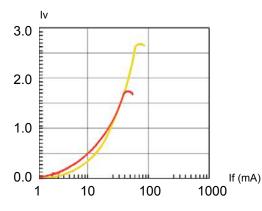
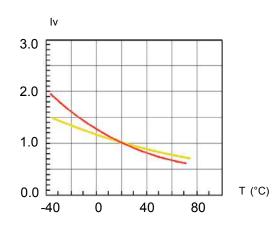
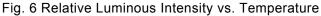


Fig. 4 Relative Luminous Intensity vs. Forward Current Normalize @ 20 mA

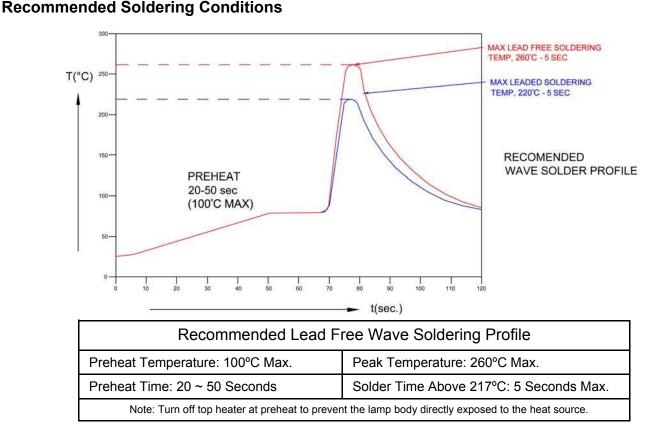




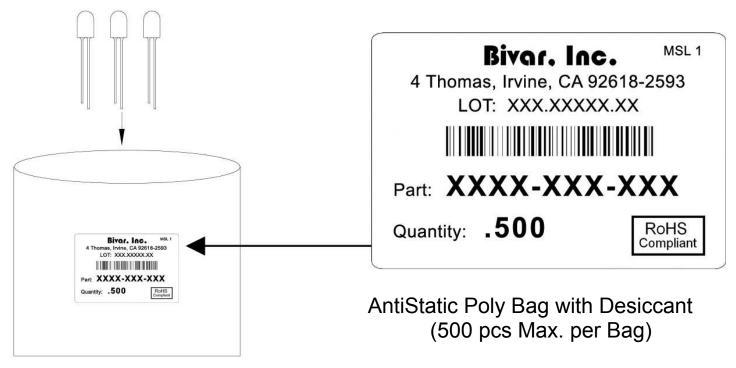
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Packaging and Labeling Plan



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