SURFACE MOUNT LED AMBER/GREEN, <u>1210 PACKAGE</u>



SM1210BC-A/G

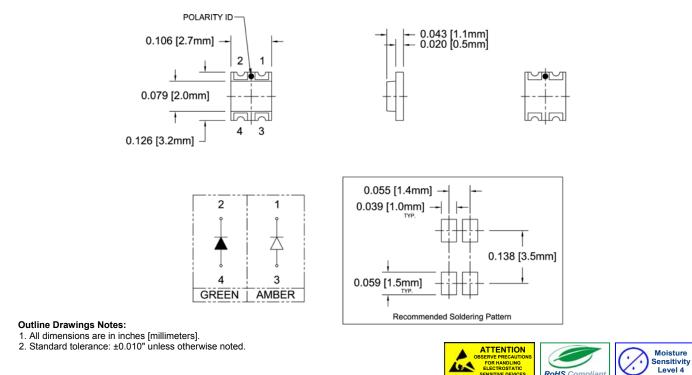
- Industry Standard Package
- RoHS Compliant
- Two Chips in One Package
- Water Clear Lens
- Wide Viewing Angle
- Ideal for Status Indication and Lighting



Bivar Surface Mount 1210 package Bi-Color LED combines two chips in a single package. They are ideal for small scale applications where multiple signals need to be displayed. When needed, the third color can be created by powering up both chips together. Bivar offers water clear LED lens for high luminous intensity and wide viewing angles. Wide variety of color and intensity combinations are available to meet any illumination need. The SM1210 LED is packaged in standard tape and reels for pick and place assemblies.

Part Number	Material	Emitted Color	Peak Wavelength λp(nm) TYP.	Lens Appearance	Luminous Intensity (mcd) TYP.	Viewing Angle	
SM1210BC-A/G	GaAsP	AMBER	610	Water Clear	15	130°	
SIMITZ TUBC-A/G	GaP	GREEN	568	Water Clear	15	130	

Outline Dimensions



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



Absolute Maximum Ratings

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

Power Dissipation	78 mW
Forward Current (DC)	30 mA
Peak Forward Current ¹	100 mA
Reverse Voltage	5 V
Operating Temperature Range	-30 ~ +80°C
Storage Temperature Range	-40 ~ +85°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. 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 velength (nm) ²		Luminous Intensity Iv (mcd)		Viewing Angle 2 O ½ (deg)			
		MIN	ТҮР	MAX	MIN	ТҮР	MAX	MAX	MIN	ТҮР	MAX	MIN	ТҮР	MAX	ТҮР
SM1210BC-A/G	AMBER	/	2.0	2.6	/	20	1	10	1	607	/	7.2	15	1	130
	GREEN	/	2.0	2.6	/	20	1	10	1	570	1	6	15	1	130

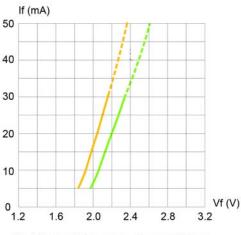
Notes: 1. Tolerance of forward voltage : ±0.05V. 2. Tole

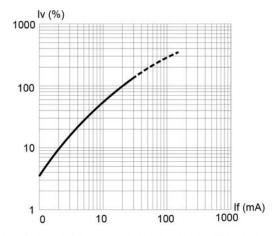
2. Tolerance of dominant wavelength : ±1.0nm.

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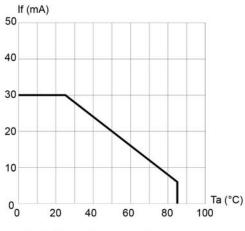


Typical Electrical / Optical Characteristics T_A = 25°C unless otherwise noted











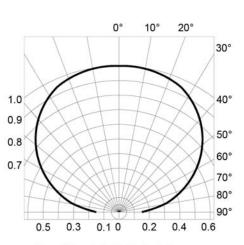
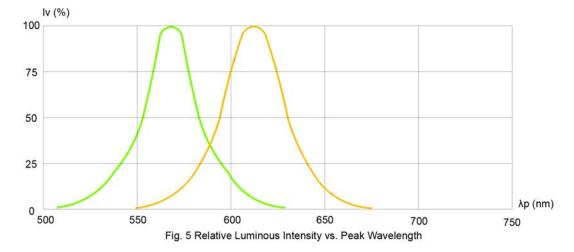


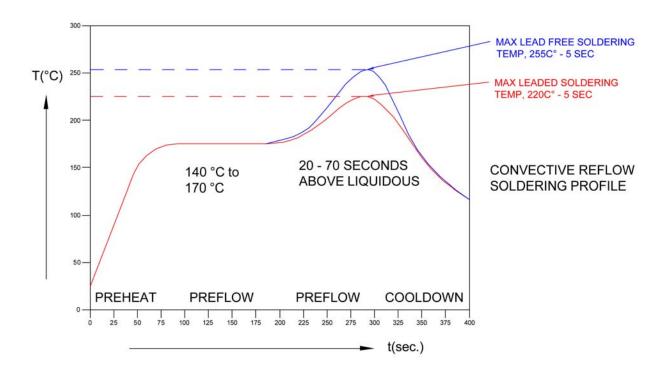
Fig. 4 Directivity Radiation Diagram



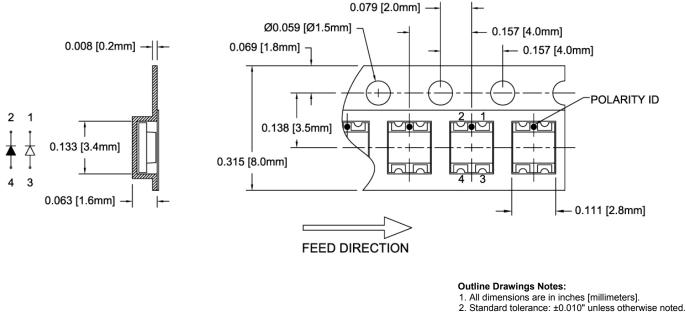
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Recommended Soldering Conditions

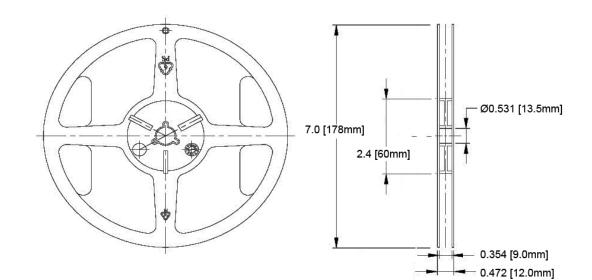


Tape and Reel Dimensions Note: 3000 pcs/Reel



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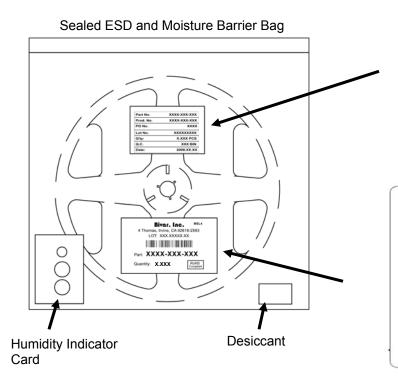


Outline Drawings Notes:

All dimensions are in inches [millimeters].
Standard tolerance unless otherwise noted: X.XXX ± 0.010"

X.XXX ± 0.010 X.X ± 0.1"

Packaging and Labeling Plan Note: 1 Reel / Bag



Part No.	XXXX-XXX-XXX
Prod. No.	XXXX-XXX-XXX
PO No.	XXXX
Lot No.	XXXXXXXXXX
Q'ty:	X.XXX PCS
Q.C.	XXX BIN
Date:	2008.XX.XX

Internal Quality Control Label

Bivar. Inc.	MSL4
4 Thomas, Irvine, CA 92618	-2593
LOT: XXX.XXXXX.XX	
Part: XXXX-XXX-X	ХХ
Quantity: X.XXX	RoHS Compliant

Bivar Standard Packaging Label

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

Mouser Electronics

Authorized Distributor

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BIVAR: SM1210BC-A/G