# SURFACE MOUNT LED RED/GREEN, 1204 PACKAGE



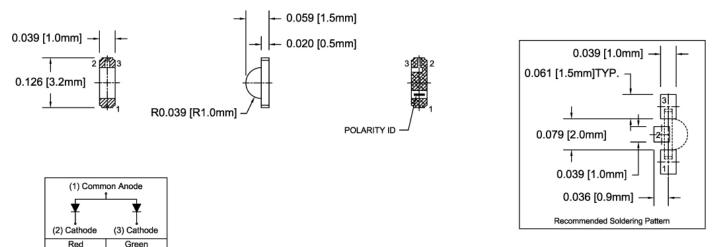
#### SM1204BC

- Industry Standard 1204 Package
- RoHS Compliant
- Two Chips in One Package
- Right Angle Mounting
- Water Clear Lens
- Wide Viewing Angle
- Ideal for Status Indication and Display

Bivar Surface Mount 1204 Bi-Color LED combines two chips in a single package. The right angle package is ideal for small scale applications where multiple signals need to be displayed. The third color can be created by powering up both chips together. Low power consumption and excellent long life reliability are ideal for battery powered equipment. Bivar offers water clear LED lens for maximum luminous intensity. Wide variety of wavelength and intensity combinations are available to meet any illumination need. The SM1204 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	
SM1204BC	AlGaInP	RED	640	Water Clear	7.2	130°	
SIMIT204BC	AlGaInP	GREEN	568	Water Clear	18	130	

## **Outline Dimensions**



#### **Outline Drawings Notes:**

- 1. All dimensions are in inches [millimeters].
- 2. Standard tolerance: ±0.010" unless otherwise noted.





## **Absolute Maximum Ratings**

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

Power Dissipation	Red - 69 mW Green - 78 mW
Forward Current ( DC )	30 mA
Peak Forward Current <sup>1</sup>	100 mA
Reverse Voltage	5 V
Operating Temperature Range	-30 ~ +85°C
Storage Temperature Range	-40 ~ +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) <sup>1</sup>		Recommend Forward Current (mA)		Reverse Current (µA)	Dominant Wavelength (nm) <sup>2</sup>		Luminous Intensity Iv (mcd)			Viewing Angle 2 O ½ (deg)			
		MIN	TYP	МАХ	MIN	TYP	MAX	МАХ	MIN	ТҮР	MAX	MIN	ТҮР	MAX	ТҮР
SM1204BC	RED	/	2.0	2.3	/	20	/	10	/	628	1	3.6	7.2	1	130
3IVI 1204DC	GREEN	/	2.0	2.3	/	20	/	10	/	570	/	11.5	18	/	130

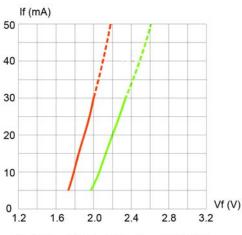
Notes: 1. Tolerance of forward voltage : ±0.05V.

2. Tolerance of dominant wavelength : ±1.0nm.

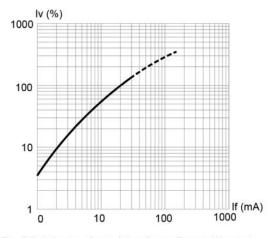


# **Typical Electrical / Optical Characteristics**

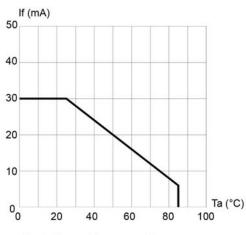
 $T_A = 25^{\circ}C$  unless otherwise noted

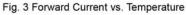


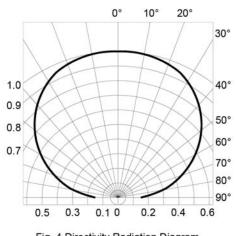




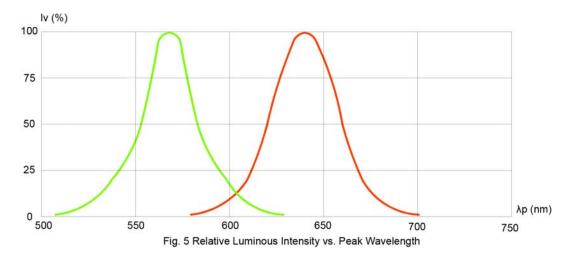








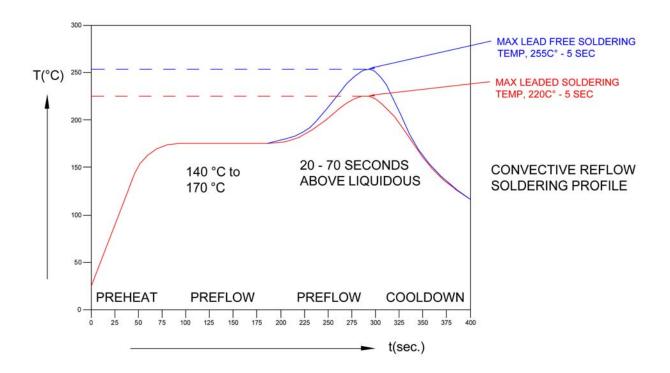




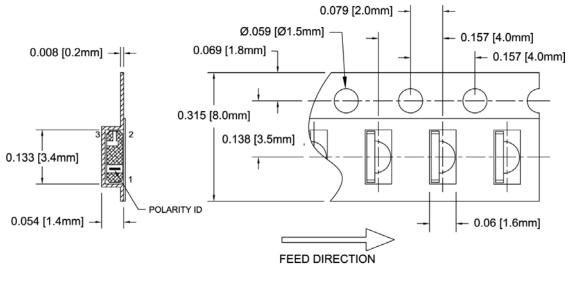
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## Recommended Soldering Conditions



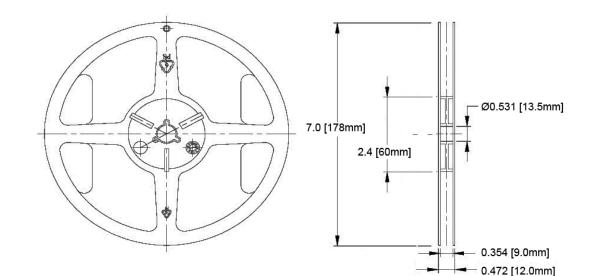
## Tape and Reel Dimensions Note: 3000 pcs/Reel



Outline Drawings Notes: 1. All dimensions are in inches [millimeters]. 2. Standard tolerance: ±0.010" unless otherwise noted.

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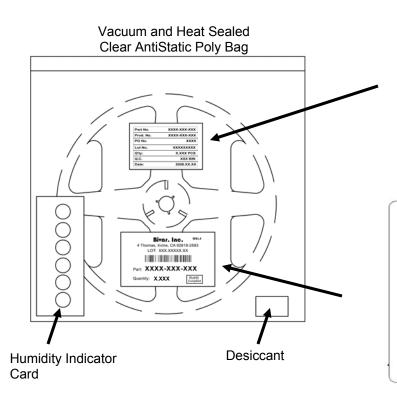


#### Outline Drawings Notes:

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

X.X ± 0.01 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

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

Bivar Standard Packaging Label



### Authorized Distribution Brand :



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