SURFACE MOUNT LED RED/BLUE, 1204 PACKAGE



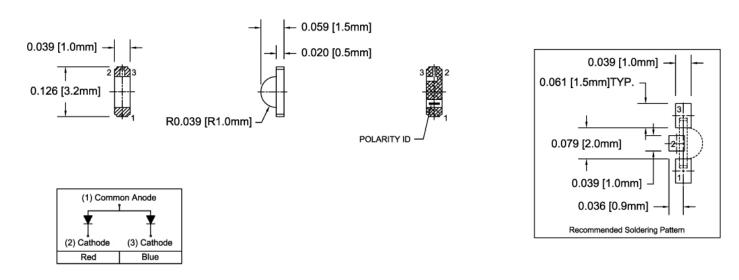
SM1204BC-R/B

- 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-R/B	AlGaInP	RED	645	Water Clear	115	130°	
SIVI 1204DC-R/B	InGaN	BLUE	468	Water Clear	115	130	

Outline Dimensions



Outline Drawings Notes:

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



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	100 mW
Forward Current (DC)	25 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		Luminous Intensity Iv (mcd)			Viewing Angle 2 O ½ (deg)			
		MIN	ТҮР	MAX	MIN	TYP	MAX	МАХ	MIN	ТҮР	MAX	MIN	ТҮР	МАХ	ТҮР
SM1204BC-R/B	RED	1	2.1	2.6	/	20	1	10	/	631	/	45	115	1	130
	BLUE	/	2.9	4.2	/	20	1	10	1	470	/	45	115	1	

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

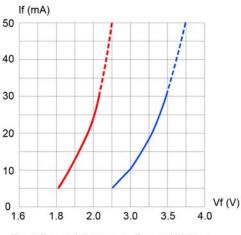
2. Tolerance of dominant wavelength : ±1.0nm.

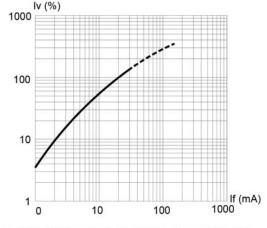
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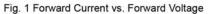


Typical Electrical / Optical Characteristics

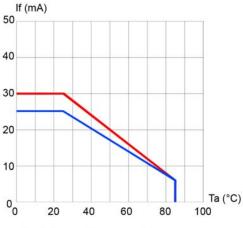
 $T_A = 25^{\circ}C$ unless otherwise noted



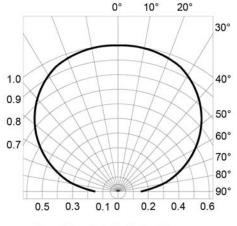




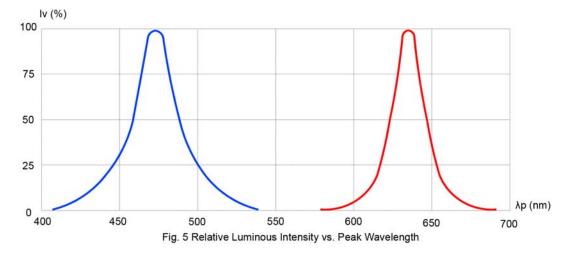










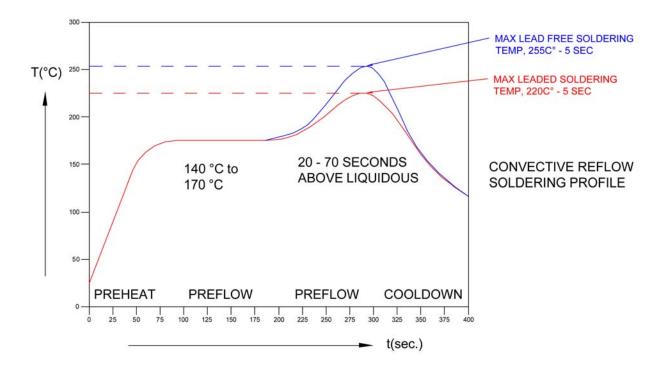


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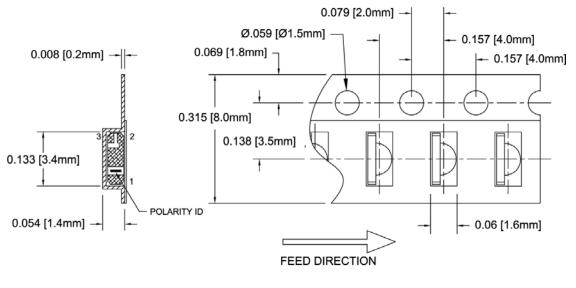
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Recommended Soldering Conditions



Tape and Reel Dimensions Note: 3000 pcs/Reel

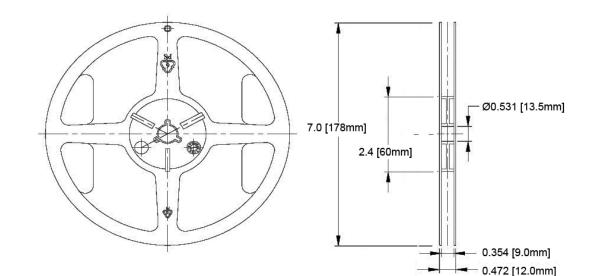


Outline Drawings Notes: 1. All dimensions are in inches [millimeters]. 2. Standard tolerance: ±0.010" unless otherwise noted.

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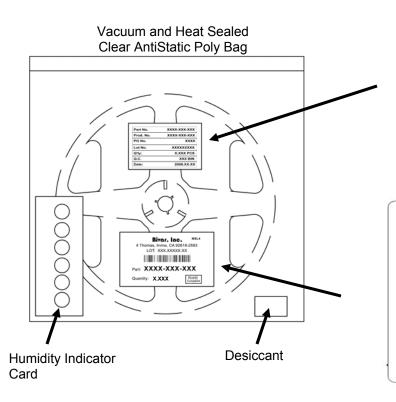


Outline Drawings Notes:

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

 $X.XXX \pm 0.01$ 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.	XXXXXXXXX
Q'ty:	X.XXX PCS
Q.C.	XXX BIN
Date:	2008.XX.XX

Internal Quality Control

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

Bivar Standard Packaging Label

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