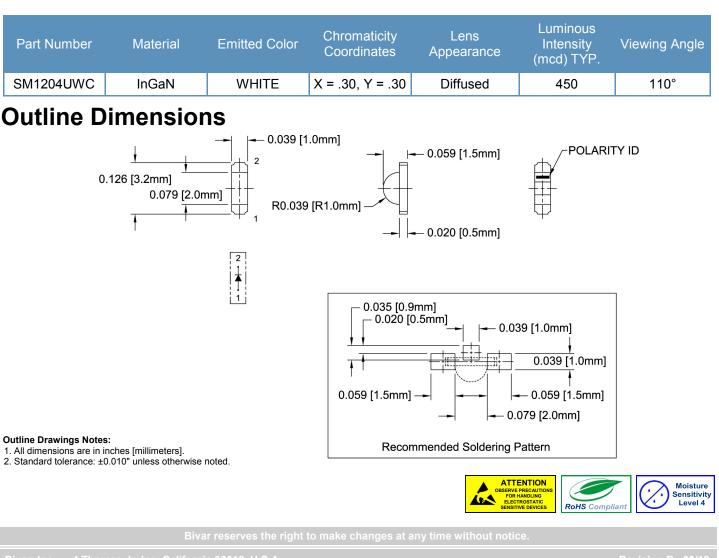


Bivar Surface Mount 1204 package LED may be used in nearly any indication application. The right angle package is ideal for small scale applications such as edge lighting or general indication. Low power consumption and excellent long life reliability are ideal for battery powered equipment. Bivar offers diffused LED lens for uniform light output. 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.



Phone: (949) 951-8808 Fax: (949) 951-3974 E-mail: bivar@bivar.com Web: www.bivar.com



Absolute Maximum Ratings

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

100 mW
25 mA
100 mA
5 V
-30 ~ +80°C
-40 ~ +85°C
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	Forward Voltage (V) ¹			Recommend Forward Current (mA)		Reverse Current (µA)	Dominant		Luminous Intensity Iv (mcd)			Viewing Angle 2 O ½ (deg)		
	MIN	ΤΥΡ	MAX	MIN	TYP	MAX	MAX	MIN	ΤΥΡ	MAX	MIN	TYP	MAX	ТҮР
SM1204UWC	/	3.3	4.2	/	20	/	10	n/a	n/a	n/a	285	450	/	110

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

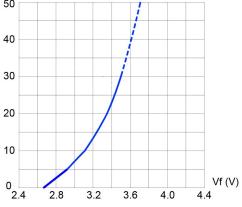
Bivar reserves the right to make changes at any time without notice.

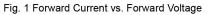
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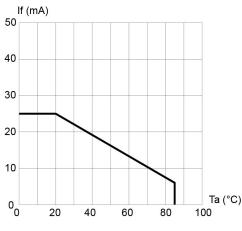
SURFACE MOUNT LED WHITE, 1204 PACKAGE

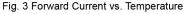
Typical Electrical / Optical Characteristics

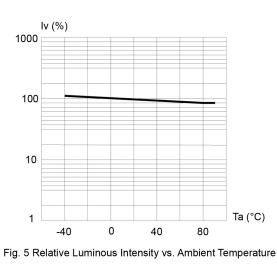
 $T_A = 25^{\circ}C$ unless otherwise noted

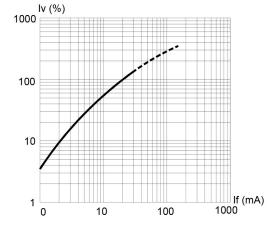




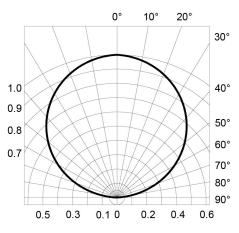




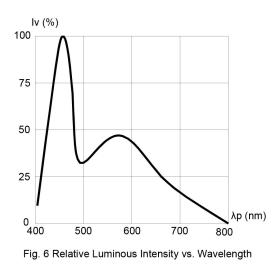












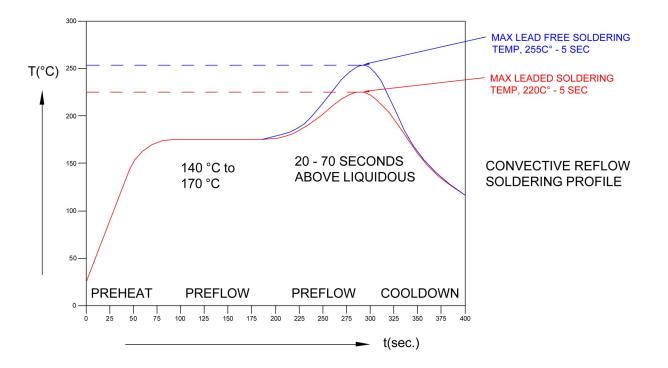
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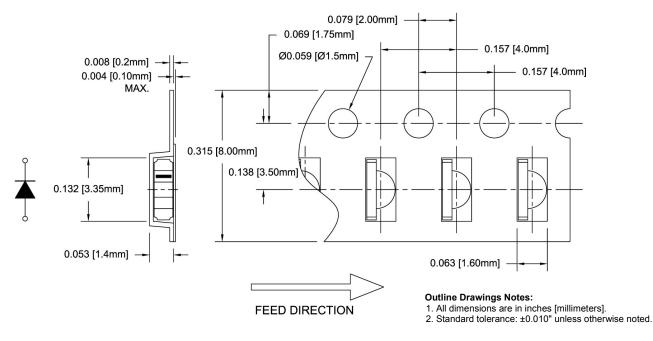
SURFACE MOUNT LED WHITE, 1204 PACKAGE



Recommended Soldering Conditions



Tape and Reel Dimensions Note: 3000 PCS/Reel

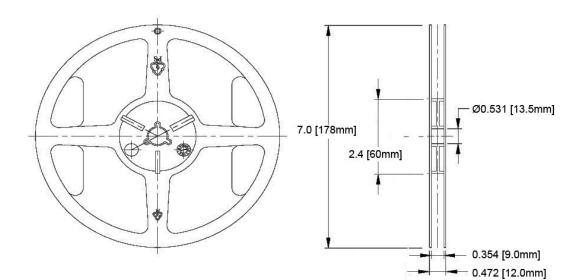


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SURFACE MOUNT LED WHITE, 1204 PACKAGE



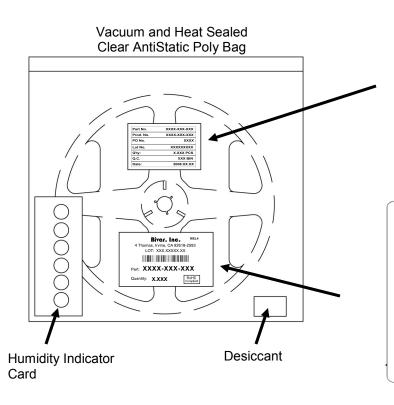


Outline Drawings Notes:

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.	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	3-2593					
LOT: XXX.XXXXX.XX	(
Part: XXXX-XXX-XXX						
Quantity: X.XXX	RoHS Compliant					

Bivar Standard Packaging Label

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

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