SURFACE MOUNT LED PURE GREEN, 1204 PACKAGE

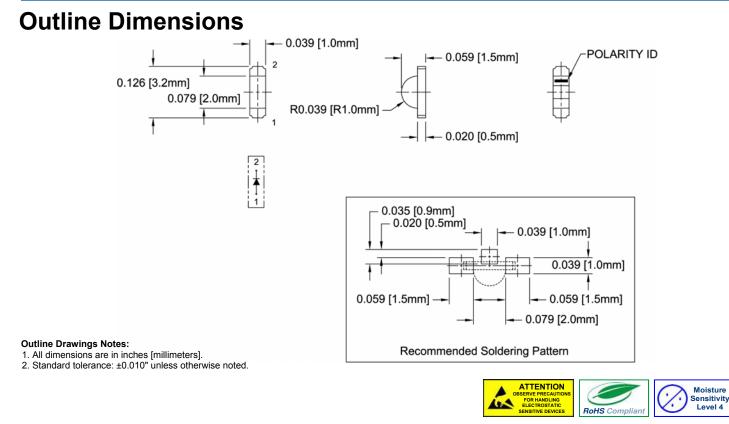


SM1204PGC

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

Bivar Surface Mount 1204 package LED may be used in nearly any lighting or 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. Wide variety of wavelength and intensity combinations are available to meet any illumination need. Bivar offers water clear LED lens for maximum luminous intensity. 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
SM1204PGC	InGaN	GREEN	500	Water Clear	360	110°



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)	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 4, 400/ Duty Outly Duty Night 204 manages 0, October these lass these 5 manages	<u> </u>

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	TYP	MAX	MIN	TYP	MAX	MAX	MIN	TYP	MAX	MIN	TYP	MAX	TYP
SM1204PGC	/	3.3	3.5	/	20	/	10	/	505	/	285	360	/	110

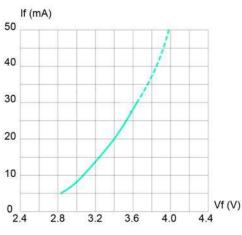
Notes: 1. Tolerance of forward voltage : $\pm 0.05V$. 2. Tolerance of dominant wavelength : ± 1.0 nm.

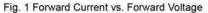
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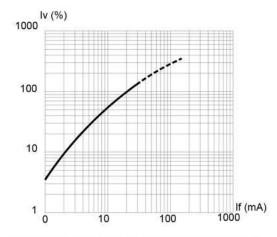


Typical Electrical / Optical Characteristics

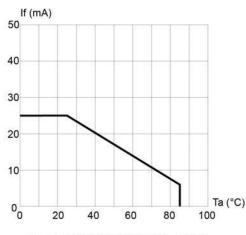
 $T_A = 25^{\circ}C$ unless otherwise noted

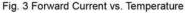


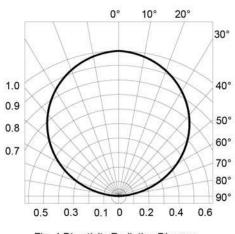




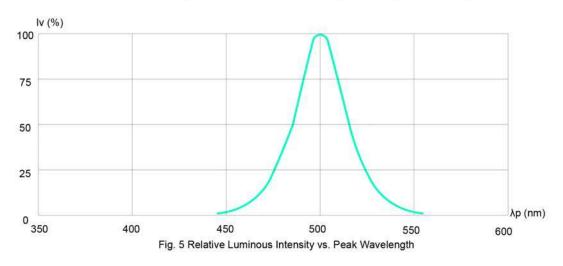












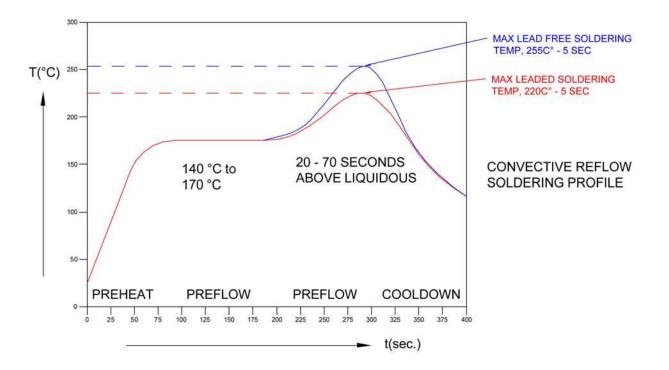
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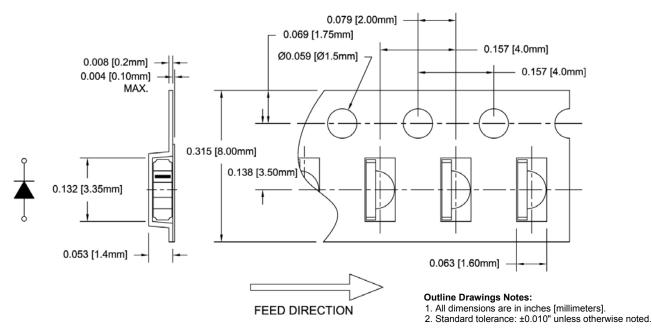


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#### **Recommended Soldering Conditions**



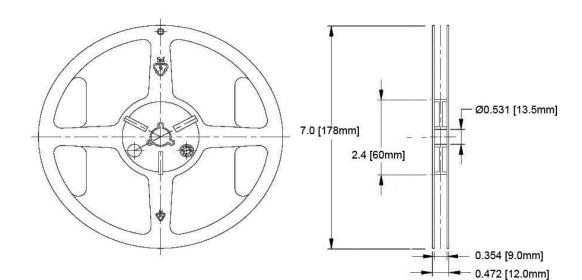
#### Tape and Reel Dimensions Note: 3000 PCS/Reel



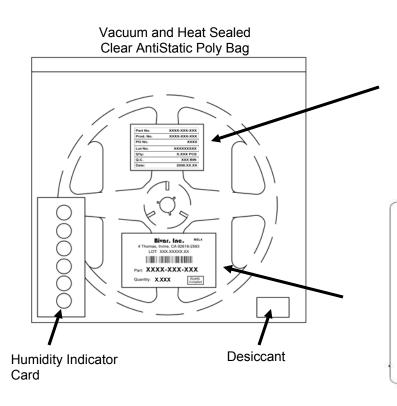
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#### Packaging and Labeling Plan Note: 1 Reel / Bag



**Outline Drawings Notes:** 

1. All dimensions are in inches [millimeters].

2. Standard tolerance unless otherwise noted: X.XXX ± 0.010"

X.X ± 0.1"

| 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 | 8-2593            |
| LOT: XXX.XXXXX.XX          | ĸ                 |
|                            |                   |
| Part: XXXX-XXX-X           | XX                |
| Quantity: X.XXX            | RoHS<br>Compliant |

**Bivar Standard Packaging Label**