

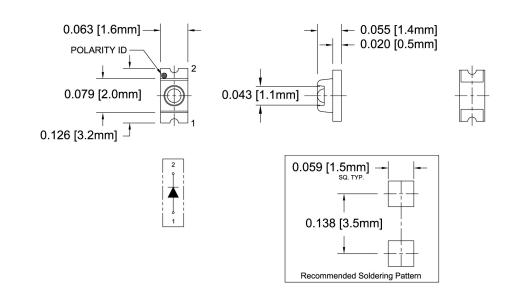
#### SM1206UWC-IL

- Industry Standard 1206 Package
- RoHS Compliant
- Diffused Inner Lens
- High Luminous Intensity
- Narrow Viewing Angle
- Ideal for Status Indication, Display, and Backlighting

Bivar Surface Mount 1206 Inner Lens package LED may be used in nearly any indication application. The diffused inner lens provides a narrow viewing angle and high luminous intensity making it suitable for small scale applications such as display, backlighting, and 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. The SM1206-IL LED is packaged in standard tape and reels for pick and place assemblies.

Part Number	Material	Emitted Color	Chromaticity Coordinates	Lens Appearance	Luminous Intensity (mcd) TYP.	Viewing Angle	
SM1206UWC-IL	InGaN	WHITE	X = .27, Y = .25	Diffused	550	30°	

#### **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

30 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

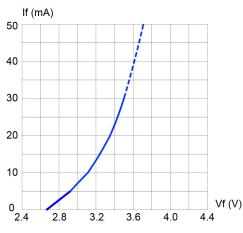
Part Number	Forward Voltage (V) <sup>1</sup>			Recommend Forward Current (mA)		Reverse Current (µA)	D	Dominant relength (nm) <sup>2</sup>		Luminous Intensity Iv (mcd)		Viewing Angle 2 O ½ (deg)		
	MIN	ТҮР	MAX	MIN	ΤΥΡ	MAX	MAX	MIN	ΤΥΡ	MAX	MIN	ΤΥΡ	MAX	ТҮР
SM1206UWC-IL	1	3.3	4.5	/	20	/	10	n/a	n/a	n/a	285	550	/	30

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

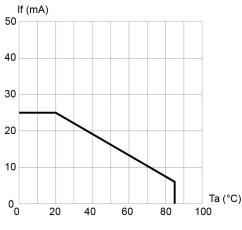
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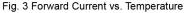
# Typical Electrical / Optical Characteristics

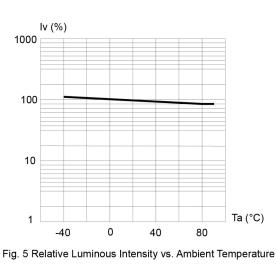
 $T_A = 25^{\circ}C$  unless otherwise noted

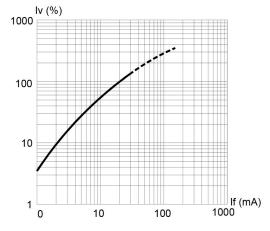




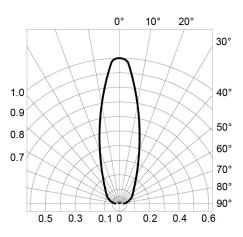




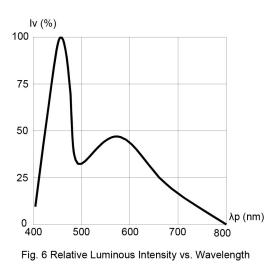








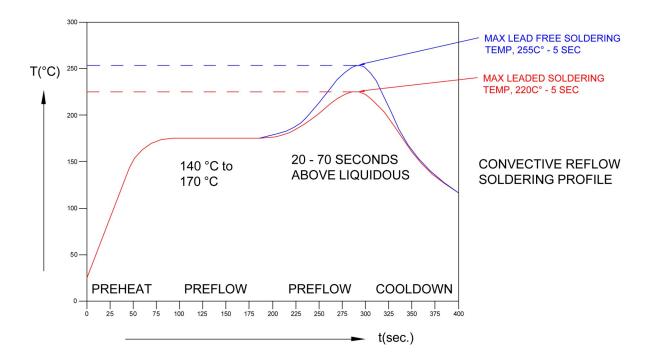




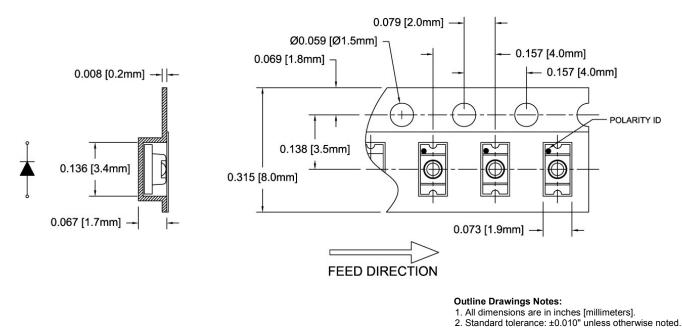
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#### **Recommended Soldering Conditions**

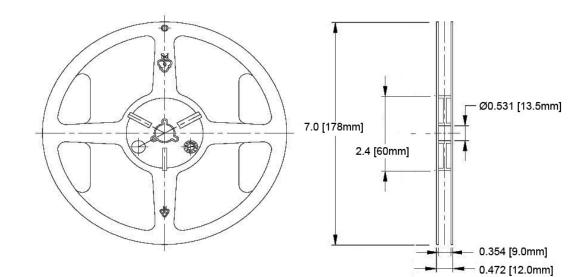


#### Tape and Reel Dimensions Note: 3000 pcs/Reel



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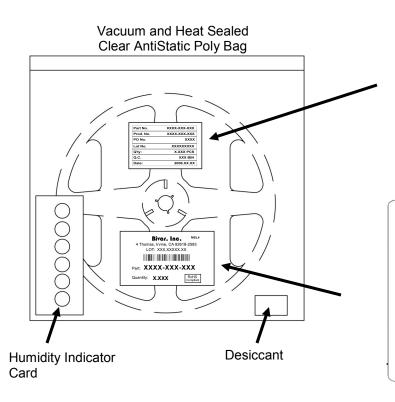
#### **Outline Drawings Notes:**

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

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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.X						
Part: XXXX-XXX-XXX						
Quantity: X.XXX	RoHS Compliant					

**Bivar Standard Packaging Label**