

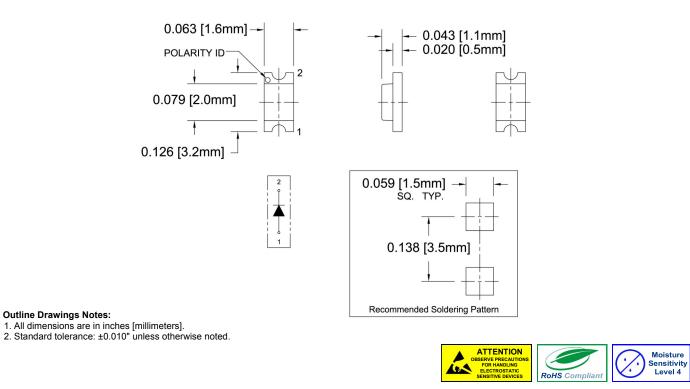
SM1206UWC

- Industry Standard 1206 Package
- RoHS Compliant
- Small Package and Footprint
- Diffused Lens
- Wide Viewing Angle
- Ideal for Status Indication, Display, and Backlighting

Bivar Surface Mount 1206 package LED may be used in nearly any indication application. The miniature package is ideal for small scale applications such as general indication and backlighting. Low power consumption and excellent long life reliability are suitable 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 SM1206 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	InGaN	WHITE	X = .29, Y = .29	Diffused	450	140°	

Outline Dimensions



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



Absolute Maximum Ratings

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

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	ΤΥΡ	MAX	MAX	MIN	ΤΥΡ	MAX	MIN	TYP	MAX	ТҮР
SM1206UWC	/	3.3	4.2	/	20	/	10	n/a	n/a	n/a	285	450	/	140

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

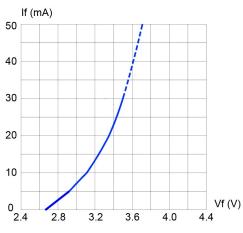
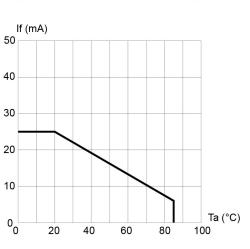
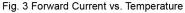
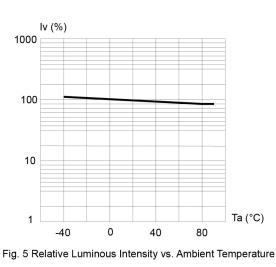
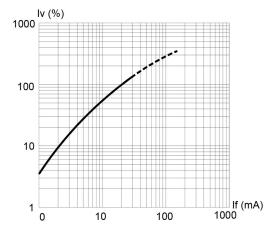


Fig. 1 Forward Current vs. Forward Voltage

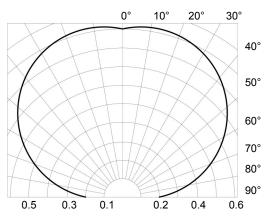




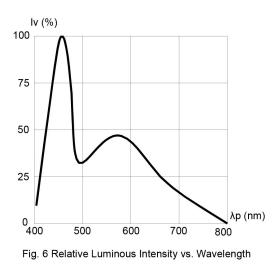








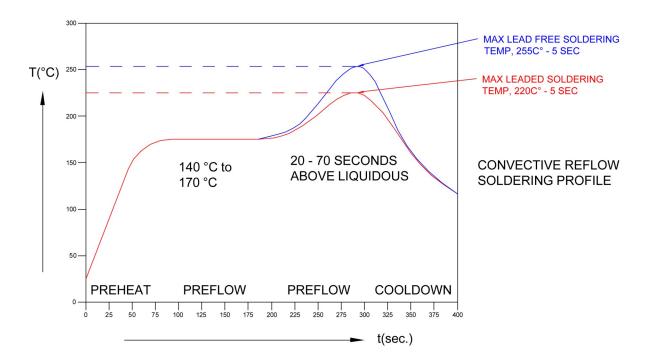




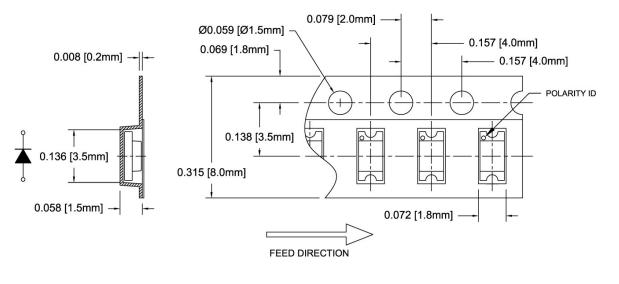
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Recommended Soldering Conditions



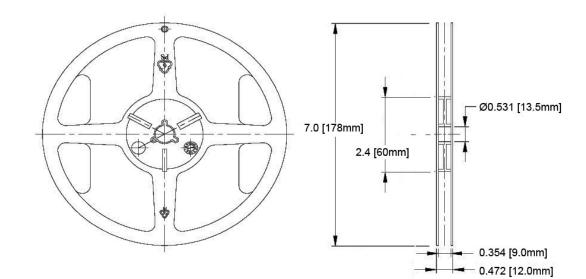
Tape and Reel Dimensions Note: 3000 pcs/Reel



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

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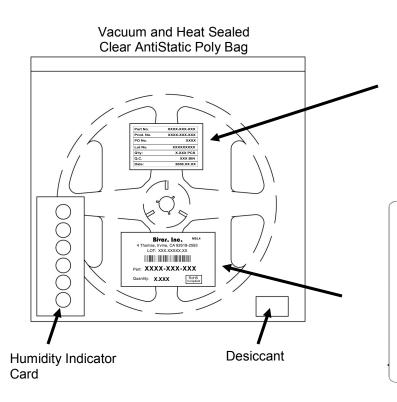


Outline Drawings Notes:

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

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-XXX						
Quantity: X.XXX	RoHS Compliant					

Bivar Standard Packaging Label