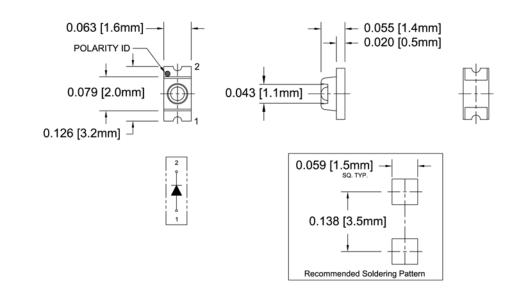
SURFACE MOUNT LED RED, 1206 IL PACKAGE SM1206URC-IL • Industry Standard 1206 Package • RoHS Compliant • Water Clear Inner Lens • High Luminous Intensity • Ideal for Status Indication, Display, and Backlighting Bivar Surface Mount 1206 Inner Lens package LED may be used in nearly any lighting or indication application. The water clear inner lens provides a narrow viewing angle and high luminous intensity

application. The water clear 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	Peak Wavelength λp(nm) TYP.	Lens Appearance	Luminous Intensity (mcd) TYP.	Viewing Angle	
SM1206URC-IL	AlGaInP	RED	655	Water Clear	220	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

Power Dissipation	78 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: 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)	D	Dominant Wavelength (nm) ²		Luminous Intensity Iv (mcd)			Viewing Angle 2 O ½ (deg)	
	MIN	ΤΥΡ	MAX	MIN	TYP	MAX	MAX	MIN	TYP	MAX	MIN	ΤΥΡ	MAX	TYP
SM1206URC-IL	/	2.1	2.6	/	20	/	10	/	640	/	100	220	/	30

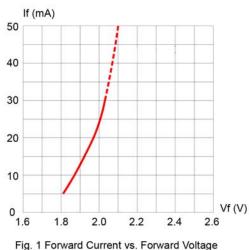
Notes: 1. Tolerance of forward voltage : $\pm 0.05V$. 2. Tolerance of dominant wavelength : ± 1.0 nm.

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SURFACE MOUNT LED RED, 1206 IL PACKAGE

Typical Electrical / Optical Characteristics

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



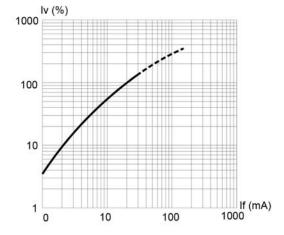


Fig. 2 Relative Luminous Intensity vs. Forward Current

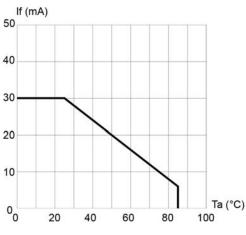
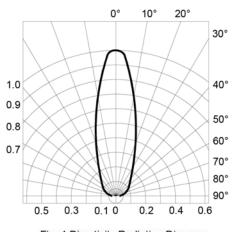
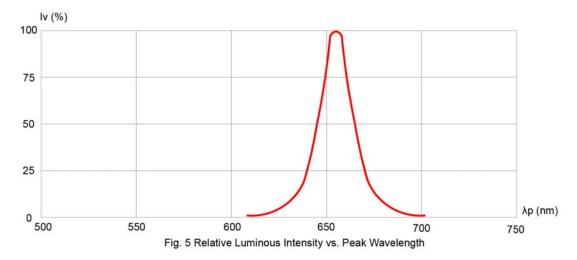


Fig. 3 Forward Current vs. Temperature





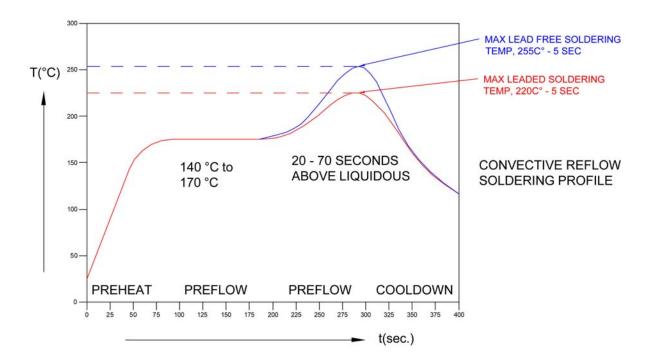


Bivar reserves the right to make changes at any time without notice.

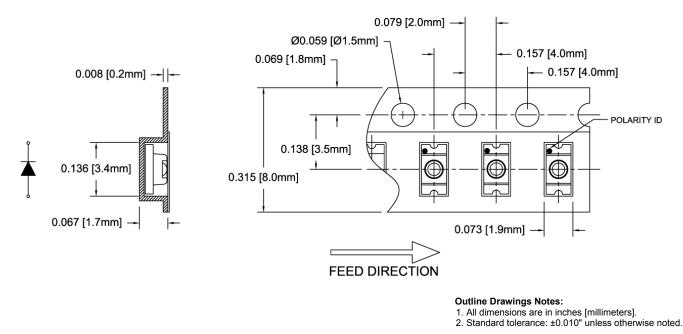
SURFACE MOUNT LED RED, 1206 IL PACKAGE



Recommended Soldering Conditions



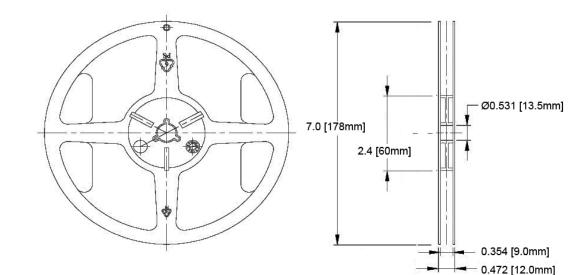
Tape and Reel Dimensions Note: 3000 pcs/Reel



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SURFACE MOUNT LED RED, 1206 IL PACKAGE



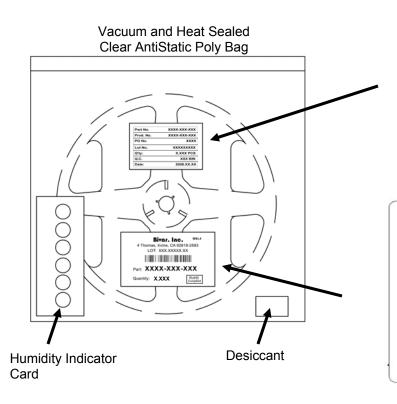


Outline Drawings Notes:

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

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 LOT: XXX.XXXXXXXXX	
Part: XXXX-XXX-X	XX
Quantity: X.XXX	RoHS Compliant

Bivar Standard Packaging Label

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