# SURFACE MOUNT LED PURE GREEN, 0805 PACKAGE



#### SM0805UPGC

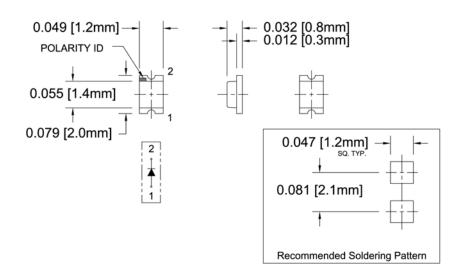
- Industry Standard 0805 Package
- RoHS Compliant
- Small Package and Footprint
- Water Clear Lens
- Wide Viewing Angle
- Ideal for Status Indication, Display, and Backlighting



Bivar Surface Mount 0805 package LED may be used in nearly any lighting or 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 water clear LED lens for maximum luminous intensity. Wide variety of wavelength and intensity combinations are available to meet any illumination need. The SM0805 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	
SM0805UPGC	InGaN	GREEN	510	Water Clear	285	130°	

### **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

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) <sup>1</sup>		Recommend Forward Current (mA)		Reverse Current (µA)	ent Waveler		ominant length (nm) <sup>2</sup>		Luminous Intensity Iv (mcd)		Viewing Angle 2 O ½ (deg)		
	MIN	ТҮР	MAX	MIN	TYP	MAX	MAX	MIN	TYP	MAX	MIN	TYP	MAX	ТҮР
SM0805UPGC	/	3.3	4.2	/	20	/	10	/	515	/	145	285	/	130

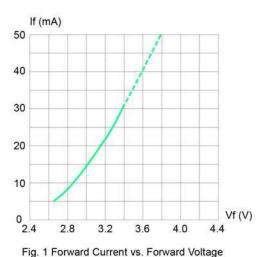
Notes: 1. Tolerance of forward voltage :  $\pm 0.05V$ . 2. Tolerance of dominant wavelength :  $\pm 1.0$ nm.

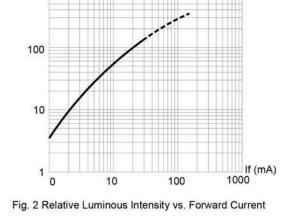
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# **Typical Electrical / Optical Characteristics**

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





Iv (%)

1000

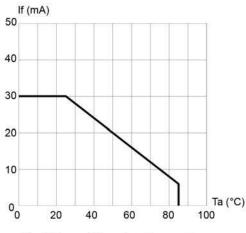
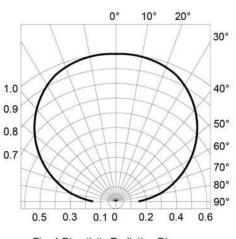
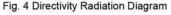
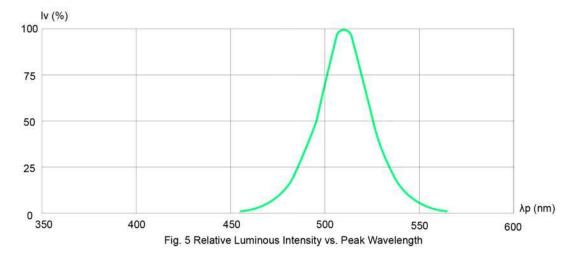


Fig. 3 Forward Current vs. Temperature





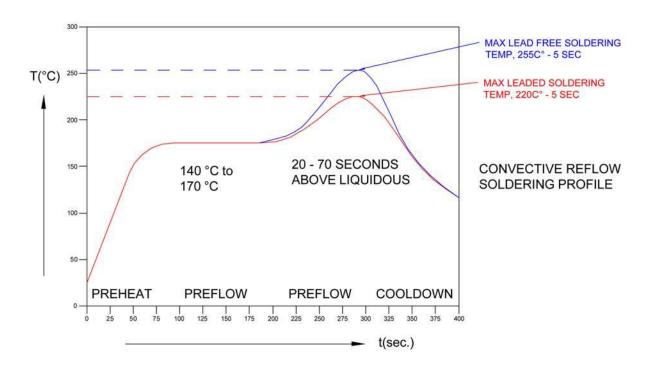


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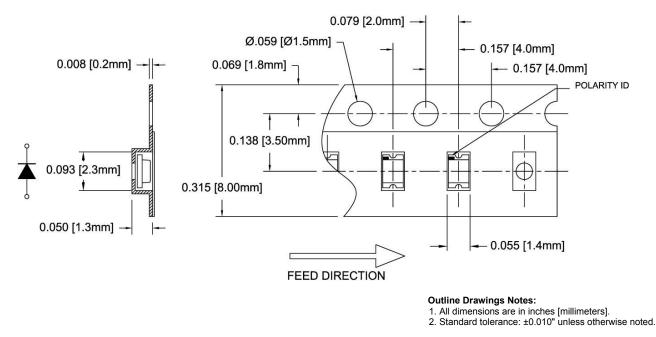
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Recommended Soldering Conditions



#### Tape and Reel Dimensions Note: 4000 pcs/Reel

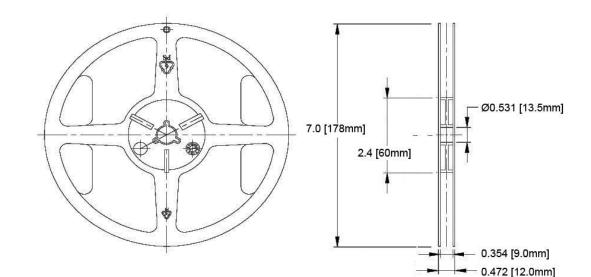


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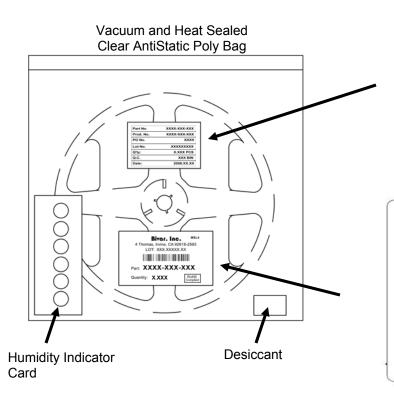


#### Outline Drawings Notes:

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-X	XX
Quantity: X.XXX	RoHS Compliant

#### Bivar Standard Packaging Label

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