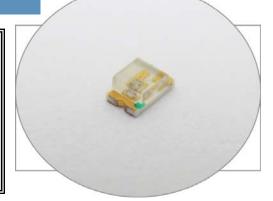
SURFACE MOUNT LED BLUE, 0805 PACKAGE



SM0805UBWC

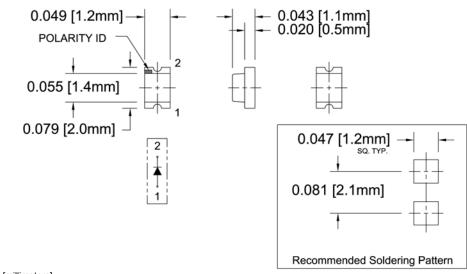
- Industry Standard 0805 Package
- RoHS Compliant
- Small Package and Footprint
- Water Clear Lens
- Wide Viewing Angle
- Ideal for Status Indication, Display, and Backlighting



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	
SM0805UBWC	InGaN	BLUE	468	Water Clear	115	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

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: 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		orwa Itage		F	comm forwai rrent (rd	Reverse Current (µA)	Dominant Wavelength (nm) ²		Luminous Intensity Iv (mcd)			Viewing Angle 2 O ½ (deg)	
	MIN	ΤΥΡ	MAX	MIN	ΤΥΡ	MAX	MAX	MIN	TYP	MAX	MIN	TYP	MAX	ΤΥΡ
SM0805UBWC	/	3.3	4.2	/	20	/	10	/	470	/	72	115	/	130

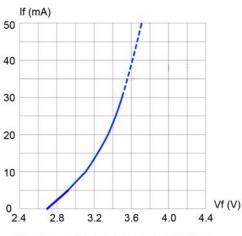
Notes: 1. Tolerance of forward voltage : $\pm 0.05V$. 2. Tolerance of dominant wavelength : ± 1.0 nm.

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



Typical Electrical / Optical Characteristics

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



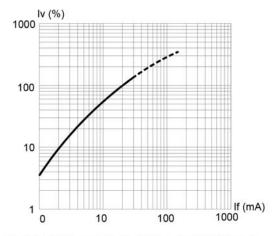
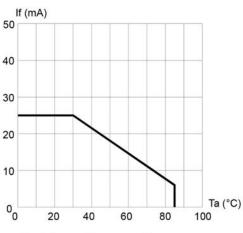
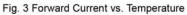
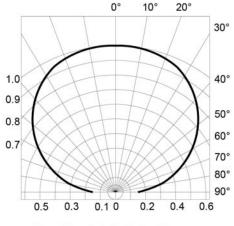


Fig. 1 Forward Current vs. Forward Voltage

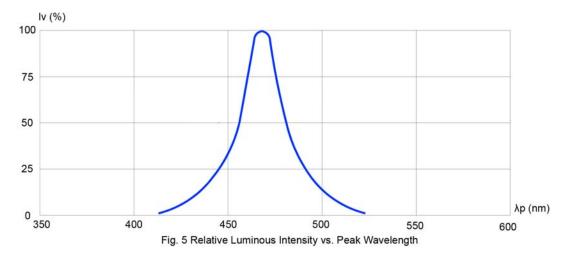










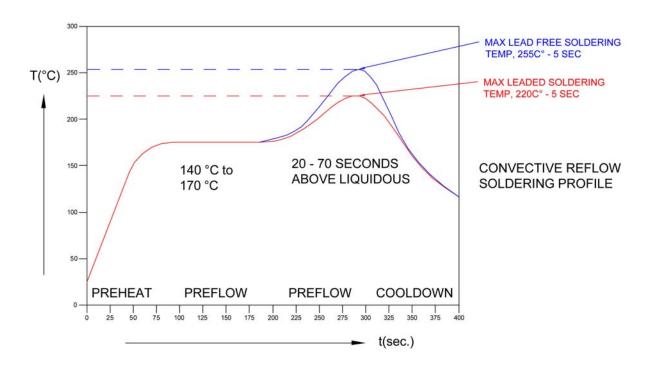


Bivar reserves the right to make changes at any time without notice.

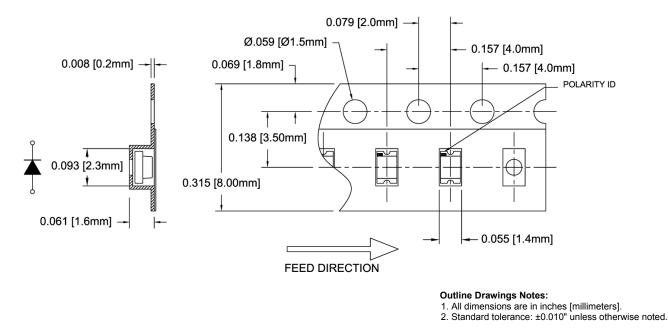
SURFACE MOUNT LED BLUE, 0805 PACKAGE



Recommended Soldering Conditions



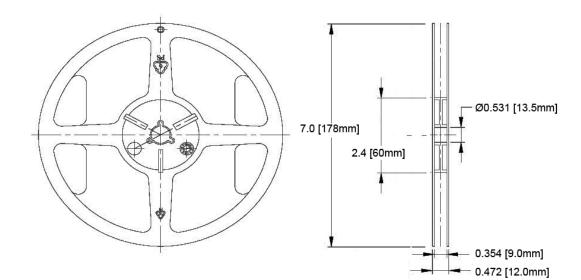
Tape and Reel Dimensions Note: 3000 pcs/Reel



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SURFACE MOUNT LED BLUE, 0805 PACKAGE



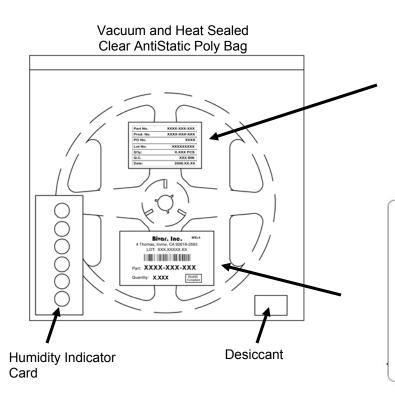


Outline Drawings Notes:

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	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.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

BIVAR: <u>SM0805UBWC</u>