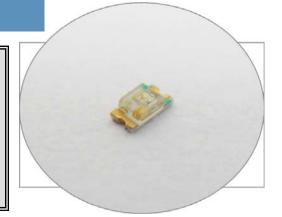


- Industry Standard 0603 Package
- RoHS Compliant
- Small Package and Footprint
- Water Clear Lens
- Wide Viewing Angle
- Ideal for Status Indication, Display, and Backlighting

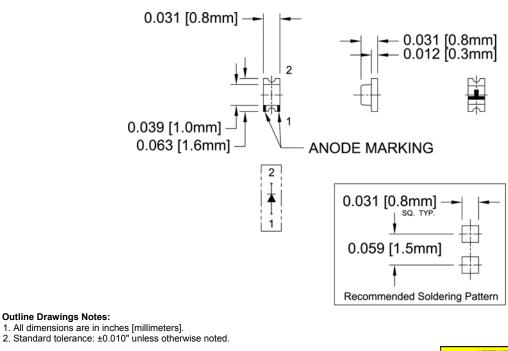


BIAVB

Bivar Surface Mount 0603 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 SM0603 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	
SM0603HC	AlGaAs	RED	660	Water Clear	15	130°	

Outline Dimensions







Absolute Maximum Ratings

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

69 mW
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

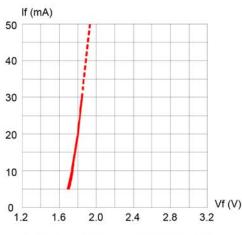
Part Number	Forward Voltage (V) ¹		-	Recommend Forward Current (mA)		Reverse Current (µA)	Dominant		Luminous Intensity Iv (mcd)			Viewing Angle 2 O ½ (deg)		
	MIN	TYP	MAX	MIN	TYP	MAX	MAX	MIN	ΤΥΡ	MAX	MIN	TYP	MAX	TYP
SM0603HC	/	1.8	2.3	/	20	/	10	/	643	/	6	15	/	130

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

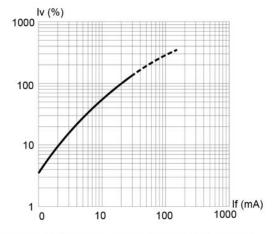


Typical Electrical / Optical Characteristics

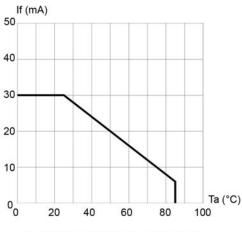
 $T_A = 25^{\circ}C$ unless otherwise noted

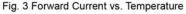


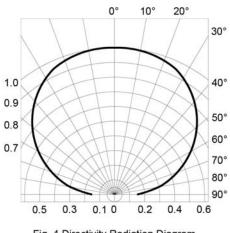




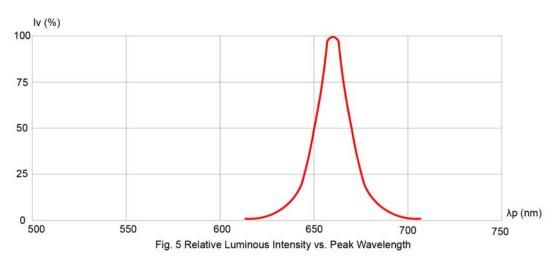








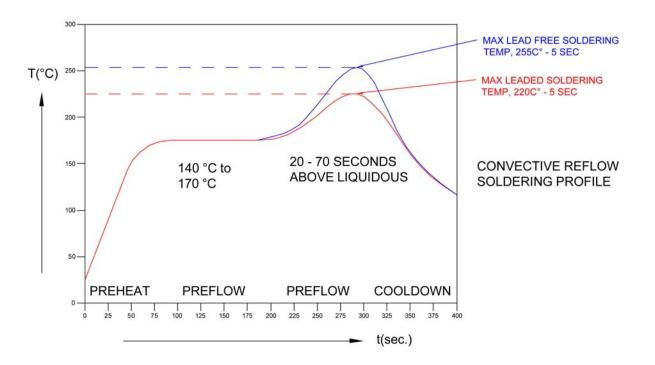




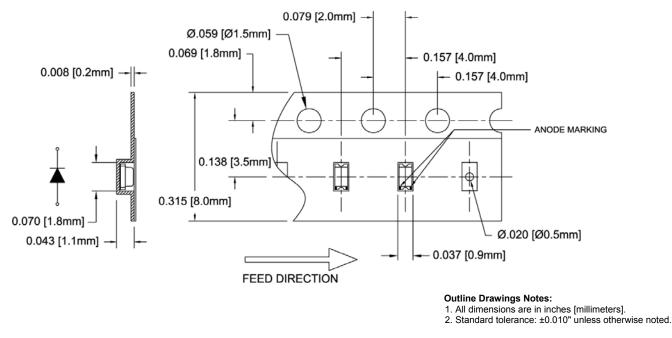


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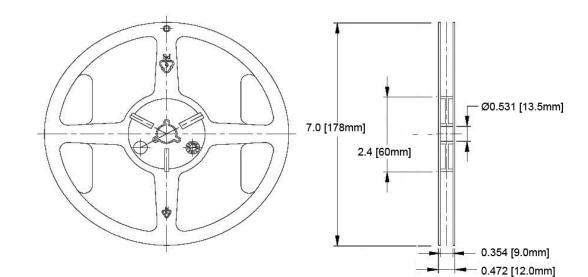
**Recommended Soldering Conditions** 



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





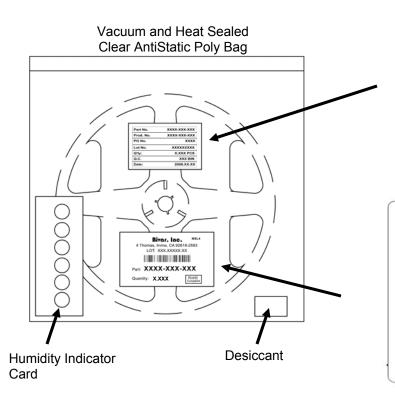


#### **Outline Drawings Notes:**

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<br>LOT: XXX XXXXX XX |                   |
|                                                 |                   |
| Part: XXXX-XXX-X                                | XX                |
| Quantity: X.XXX                                 | RoHS<br>Compliant |

Bivar Standard Packaging Label

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