# imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



### Contact us

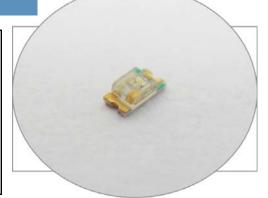
Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





#### SM0603YC

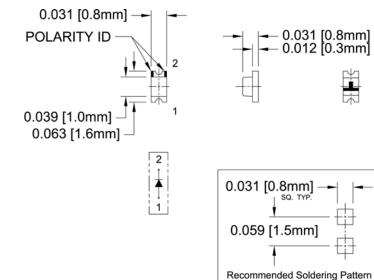
- Industry Standard 0603 Package
- RoHS Compliant
- Small Package and Footprint
- Water Clear Lens
- Wide Viewing Angle
- Ideal for Status Indication, Display, and Backlighting



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
SM0603YC	GaAsP	YELLOW	583	Water Clear	6	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

78 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) <sup>1</sup>			Recommend Forward Current (mA)		Reverse Current (µA)	nt Wavelength (nm) <sup>2</sup>			Luminous Intensity Iv (mcd)			Viewing Angle 2 O ½ (deg)	
	MIN	TYP	MAX	MIN	ТҮР	MAX	MAX	MIN	TYP	MAX	MIN	TYP	MAX	ТҮР
SM0603YC	/	2.0	2.6	/	20	/	10	/	585	/	1	6	/	130

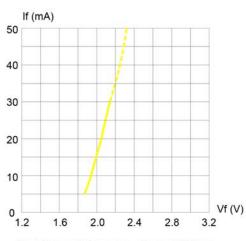
Notes: 1. Tolerance of forward voltage :  $\pm 0.05V$ . 2. Tolerance of dominant wavelength :  $\pm 1.0$ nm.

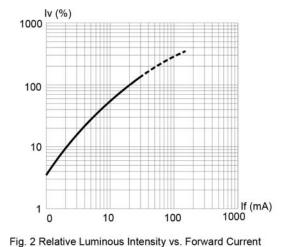
Bivar reserves the right to make changes at any time without notice.

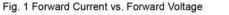


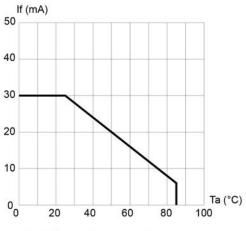
## **Typical Electrical / Optical Characteristics**

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











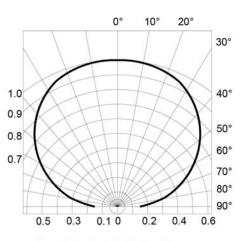
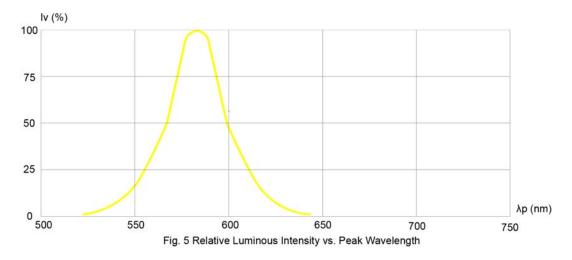


Fig. 4 Directivity Radiation Diagram

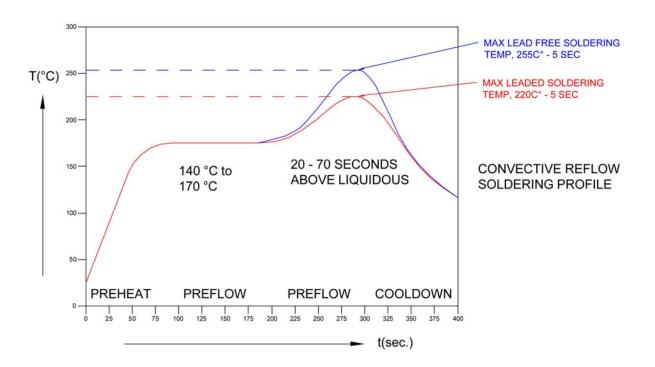


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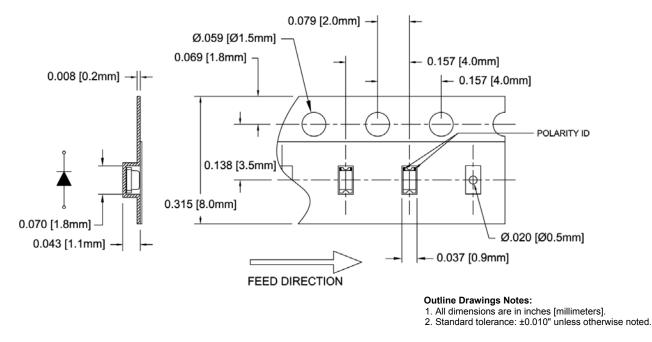


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Recommended Soldering Conditions

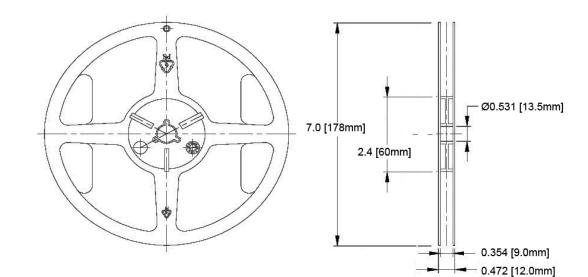


#### Tape and Reel Dimensions Note: 4000 pcs/Reel



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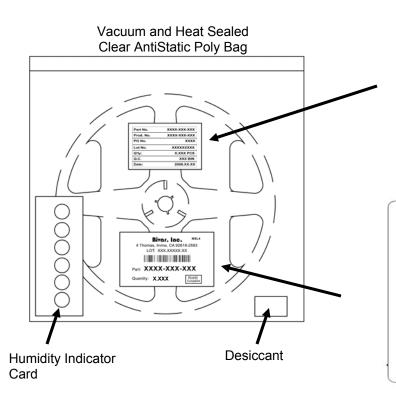


#### Outline Drawings Notes:

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.   | XXXXXXXXXX   |
| 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 |                   |
|                                                 | 29<br>1020 - 10   |
| Part: XXXX-XXX-X                                |                   |
|                                                 | RoHS<br>Compliant |

**Bivar Standard Packaging Label** 

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