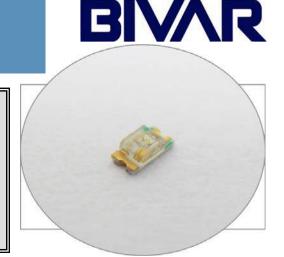


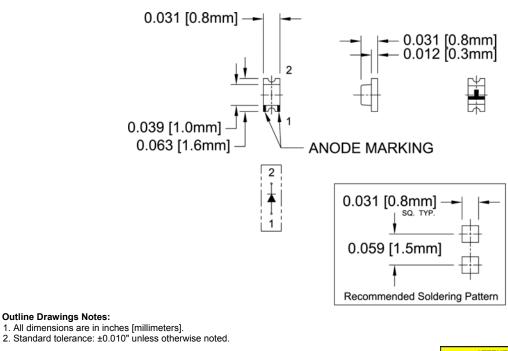
- Industry Standard 0603 Package
- RoHS Compliant
- Small Package and Footprint
- Water Clear Lens
- Wide Viewing Angle
- Ideal for Status Indication, Display, and Backlighting



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	
SM0603HC	AlGaAs	RED	660	Water Clear	15	130°	

Outline Dimensions





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



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)	ent Wavelength				Luminous ensity Iv (mcd)		Viewing Angle 2 O ½ (deg)		
	MIN	TYP	MAX	MIN	ТҮР	MAX	MAX	MIN	TYP	MAX	MIN	TYP	MAX	ТҮР
SM0603HC	/	1.8	2.3	/	20	/	10	/	643	/	6	15	/	130

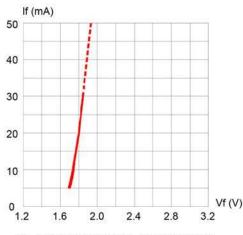
Notes: 1. Tolerance of forward voltage : $\pm 0.05V$. 2. Tolerance of dominant wavelength : ± 1.0 nm.

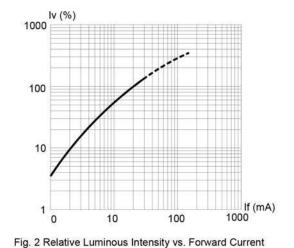
Bivar reserves the right to make changes at any time without notice.



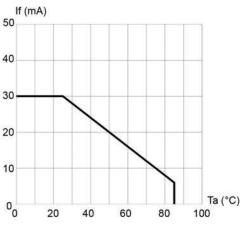
Typical Electrical / Optical Characteristics

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

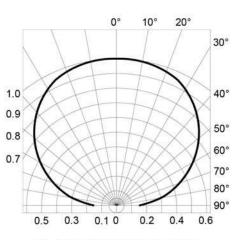


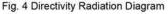


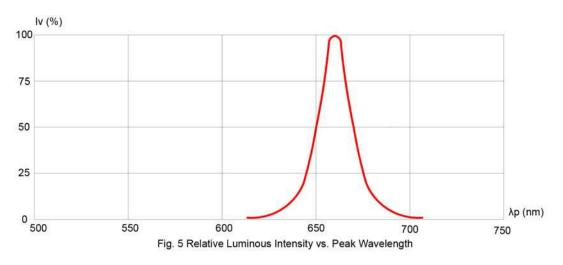








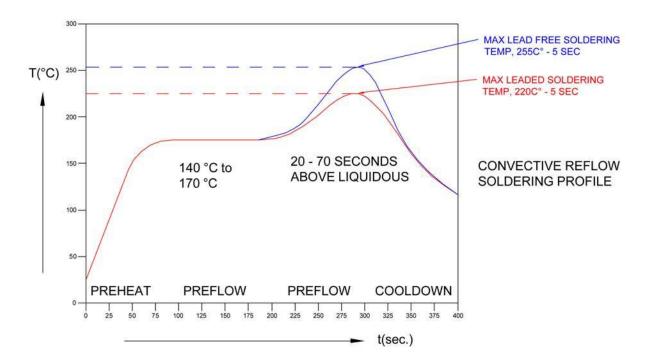




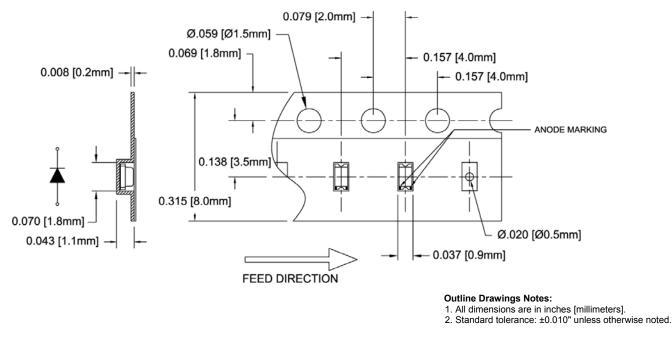
Sivar reserves the right to make changes at any time without notice.



Recommended Soldering Conditions

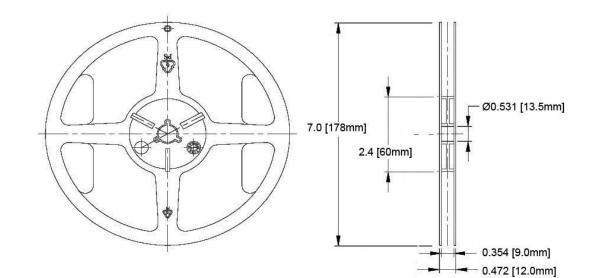


Tape and Reel Dimensions Note: 4000 pcs/Reel



livar reserves the right to make changes at any time without notice



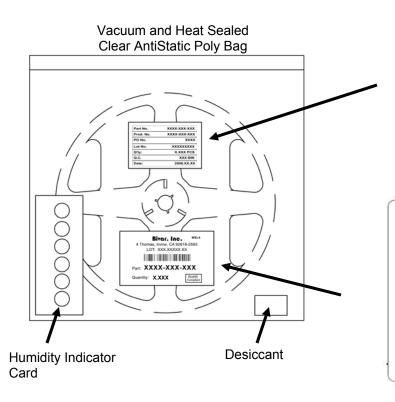


Outline Drawings Notes:

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

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