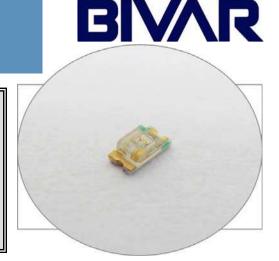
SURFACE MOUNT LED WHITE, 0603 PACKAGE



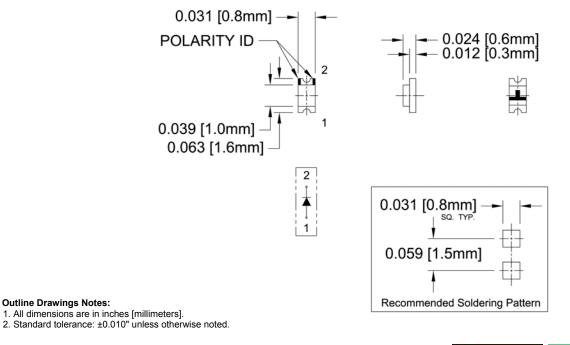
- Industry Standard 0603 Package
- RoHS Compliant
- Small Package and Footprint
- Diffused Lens
- Wide Viewing Angle
- Ideal for Status Indication, Display, and Backlighting



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 diffused LED lens for uniform light output. 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	Chromaticity Coordinates	Lens Appearance	Luminous Intensity (mcd) TYP.	Viewing Angle	
SM0603UWC	InGaN	WHITE	X = .28, Y = .27	Diffused	440	110°	

Outline Dimensions



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

Moisture Sensitivity Level 4

ATTENTION



Absolute Maximum Ratings

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

Power Dissipation	100 mW
Forward Current (DC)	25 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	Forward Voltage (V) ¹		Recommend Forward Current (mA)		Reverse Current (µA)	nt Wavelength (n			² Luminous Intensity Iv (mcd)			Viewing Angle 2 O ½ (deg)		
	MIN	ТҮР	MAX	MIN	ТҮР	MAX	MAX	MIN	TYP	MAX	MIN	TYP	MAX	ТҮР
SM0603UWC	/	3.3	3.5	/	20	/	10	n/a	n/a	n/a	285	440	/	110

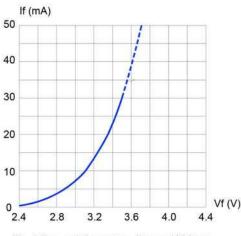
Notes: 1. Tolerance of forward voltage : ±0.05V. 2. Tolerance of dominant wavelength : ±1.0nm.

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



Typical Electrical / Optical Characteristics

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





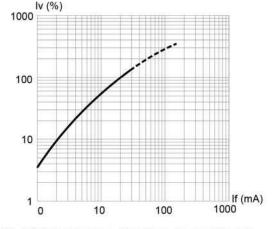
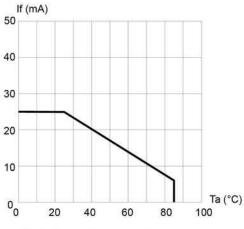


Fig. 2 Relative Luminous Intensity vs. Forward Current





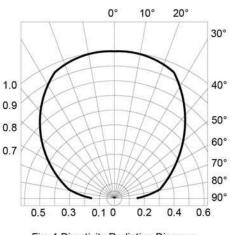
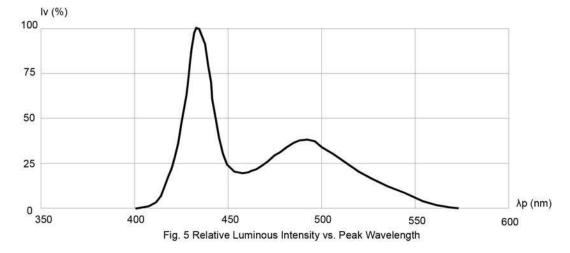


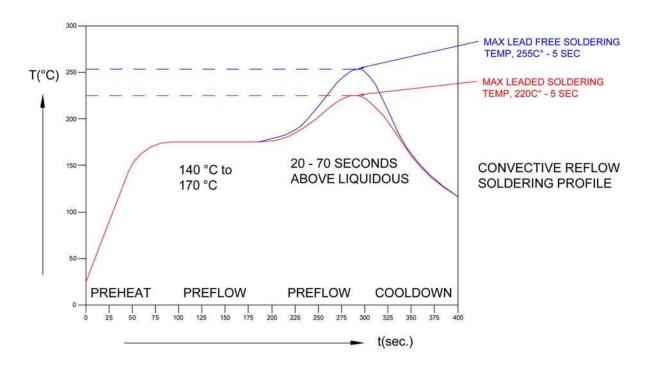
Fig. 4 Directivity Radiation Diagram



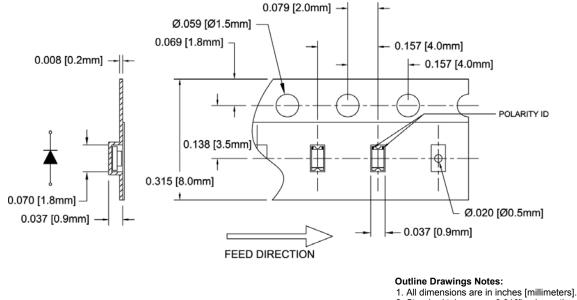
SURFACE MOUNT LED WHITE, 0603 PACKAGE



Recommended Soldering Conditions



Tape and Reel Dimensions Note: 4000 pcs/Reel

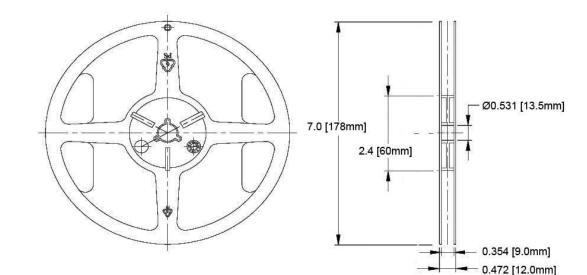


All differisions are in finctes [finitifferers].
Standard tolerance: ±0.010" unless otherwise noted.

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

SURFACE MOUNT LED WHITE, 0603 PACKAGE



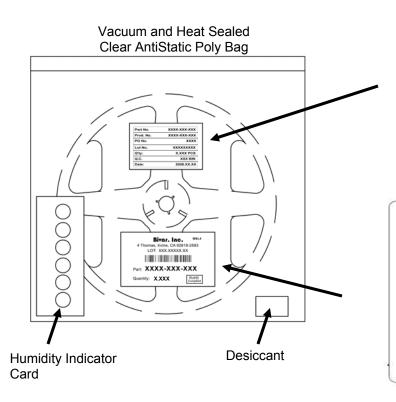


Outline Drawings Notes:

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.	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	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.