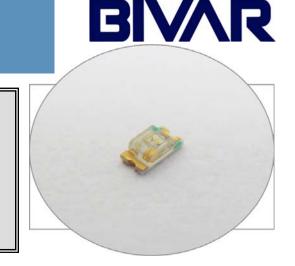
SM0603GCL

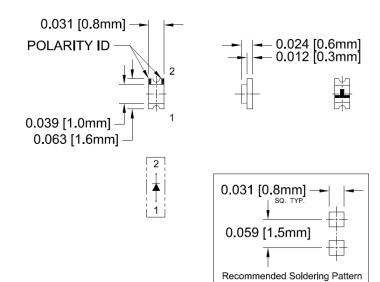
- ♦ Industry Standard 0603 Package
- **♦** RoHS Compliant
- ♦ Small Package and Footprint
- ♦ Low Current, 2mA
- Water Clear Lens
- Wide Viewing Angle
- ♦ Ideal for Status Indication, Display, and Backlighting



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
SM0603GCL	AlGaInP	GREEN	575	Water Clear	3.6	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°C unless otherwise noted

Power Dissipation	78 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 ≤ 0.1 msec.

2. Solder time less than 5 seconds at temperature extreme.

Electrical / Optical Characteristics

 $T_A = 25^{\circ}C \& I_F = 2 \text{ mA}$ unless otherwise noted

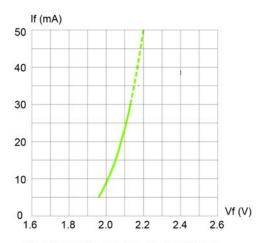
Part Number	Forward Voltage (V) ¹		Recommend Forward Current (mA)		Reverse Current (µA)	, Domin		minant ength (nm) ²		uminoı sity lv (Viewing Angle 2 O ½ (deg)			
	MIN	TYP	MAX	MIN	TYP	MAX	MAX	MIN	TYP	MAX	MIN	TYP	MAX	TYP
SM0603GCL	/	1.9	2.3	/	2	1	10	1	574	/	1.2	3.6	/	130

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



Typical Electrical / Optical Characteristics

T_A = 25°C unless otherwise noted



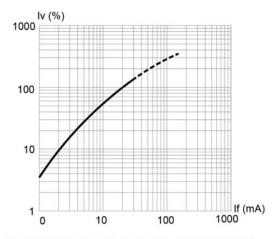
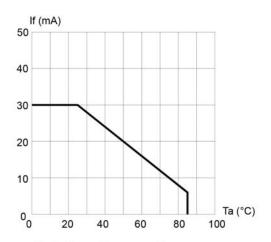


Fig. 1 Forward Current vs. Forward Voltage

Fig. 2 Relative Luminous Intensity vs. Forward Current





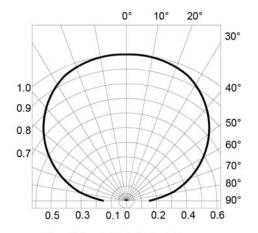
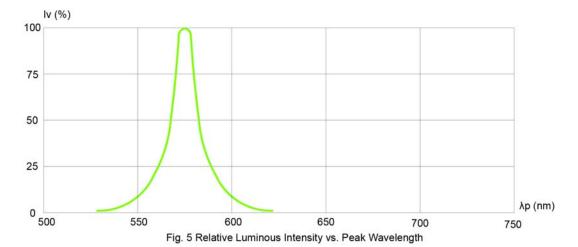


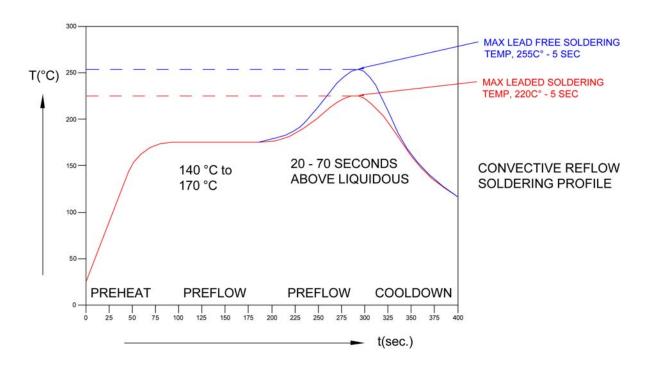
Fig. 4 Directivity Radiation Diagram



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

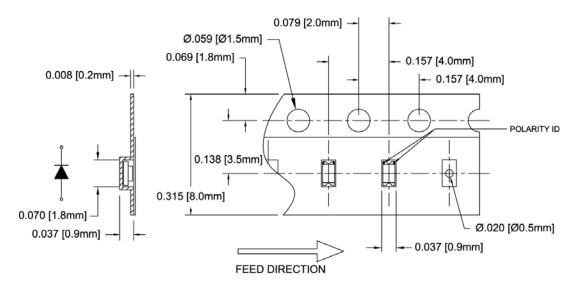


Recommended Soldering Conditions



Tape and Reel Dimensions

Note: 4000 pcs/Reel

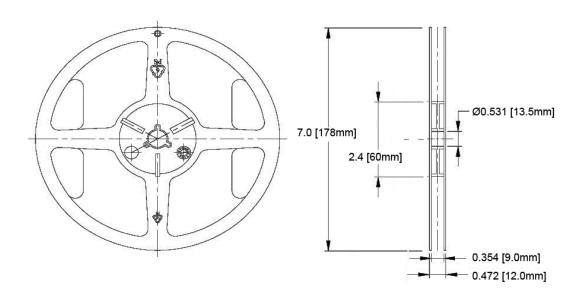


Outline Drawings Notes:

- 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





Outline Drawings Notes:

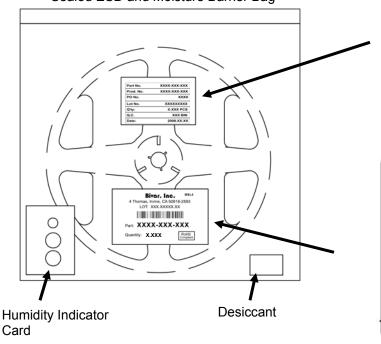
- 1. All dimensions are in inches [millimeters].
- 2. Standard tolerance unless otherwise noted: X.XXX ± 0.010"

 $X.XXX \pm 0.010^{\circ}$ $X.X \pm 0.1^{\circ}$

Packaging and Labeling Plan

Note: 1 Reel / Bag

Sealed ESD and Moisture Barrier Bag



Part No.	XXXX-XXX-XXX				
Prod. No.	XXXX-XXX-XXX				
PO No.	xxxx				
Lot No.	XXXXXXXX				
Q'ty:	X.XXX PCS				
Q.C.	XXX BIN				
Date:	2008.XX.XX				

Internal Quality Control Label

Bivar. Inc. MSL4

4 Thomas, Irvine, CA 92618-2593 LOT: XXX.XXXXXXXX

Part: XXXX-XXX

Quantity: XXXX

RoHS Compliant

Bivar Standard Packaging Label

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

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EASV1803BA0 LG M67K-H1J2-24-0-2-R18-Z LS A676-P2S1-1 SML310BATT86 SML-512VWT86A SML-LX0606SISUGC/A SML
LXL1307SRC-TR SML-LXR851SIUPGUBC LT1ED53A FAT801-S AM27ZGC03 APB3025SGNC APFA3010SURKCGKQBDC

APHK1608VGCA APT2012QGW CLX6D-FKB-CN1R1H1BB7D3D3 LTST-C250KGKT LTW-020ZDCG LTW-21TS5 LTW-220DS5

JANTXM19500/521-02 UYGT801-S LO T67F-V1AB-24-1 YGFR411-H SML-LX0402IC-TR CMDA20AYAA7D1S CMDA16AYDR7A1X

339-1SURSYGW/S530-A2 598-8040-100F 598-8070-100F 598-8140-100F 598-8610-200F EAPL3527GA5 67-11/BHC-M1N2B8Y/2A0

SML-LXL1209SYC/ATR EASV3020YGA0 EAST16086YA5