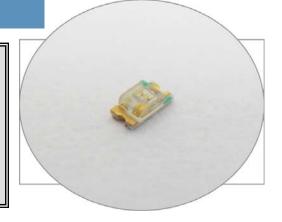
# SURFACE MOUNT LED RED, 0603 PACKAGE

# BIVAR

#### **SM0603RC**

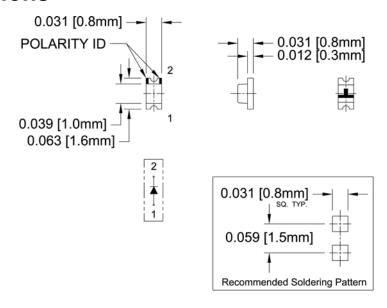
- ♦ Industry Standard 0603 Package
- **♦** RoHS Compliant
- ♦ Small Package and Footprint
- Water Clear Lens
- **♦ Wide Viewing Angle**
- ♦ Ideal for Status Indication, Display, and Backlighting



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	
SM0603RC	GaP	RED	700	Water Clear	1	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

# SURFACE MOUNT LED RED, 0603 PACKAGE



## **Absolute Maximum Ratings**

T<sub>A</sub> = 25°C unless otherwise noted

Power Dissipation	78 mW
Forward Current ( DC )	30 mA
Peak Forward Current <sup>1</sup>	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**

 $T_A = 25^{\circ}C \& I_F = 20 \text{ mA}$  unless otherwise noted

Part Number		Forward Voltage (V) <sup>1</sup>		Recommend Forward Current (mA)		Reverse Current (µA)	Dominant Wavelength (nm) <sup>2</sup>		Luminous Intensity Iv (mcd)		Viewing Angle 2 Θ ½ (deg)			
	MIN	TYP	MAX	MIN	TYP	MAX	MAX	MIN	TYP	MAX	MIN	TYP	MAX	TYP
SM0603RC	/	2.0	2.6	/	20	/	10	1	645	/	0.1	1	/	130

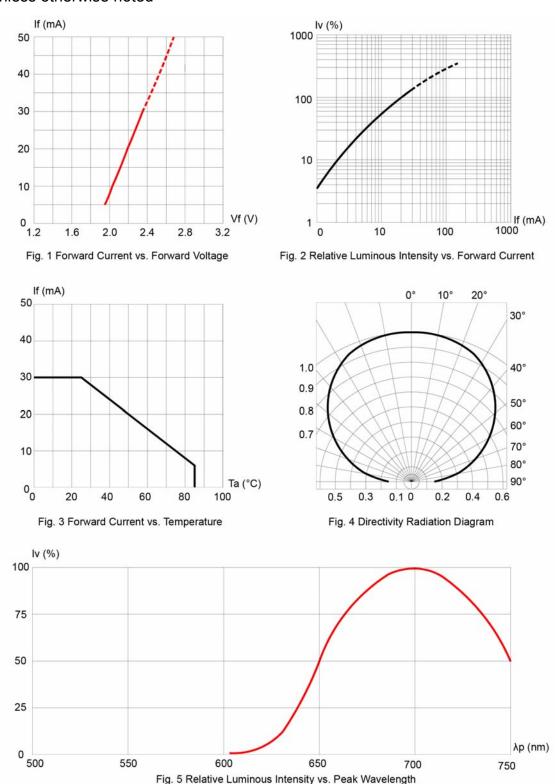
Notes: 1. Tolerance of forward voltage: ±0.05V. 2. Tolerance of dominant wavelength: ±1.0nm.

# SURFACE MOUNT LED RED, 0603 PACKAGE



# **Typical Electrical / Optical Characteristics**

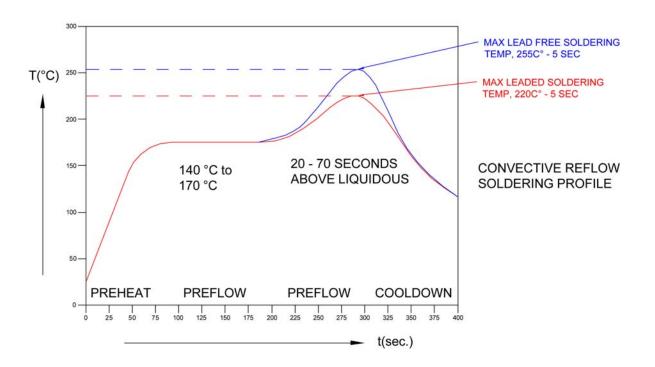
T<sub>A</sub> = 25°C unless otherwise noted



# SURFACE MOUNT LED RED, 0603 PACKAGE

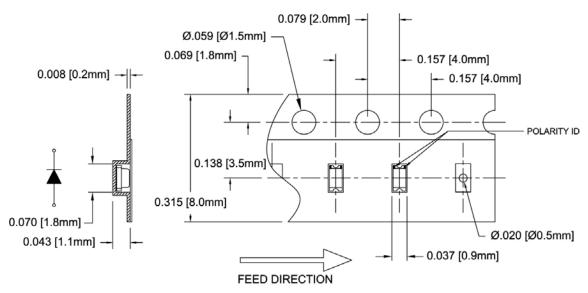


### **Recommended Soldering Conditions**



### **Tape and Reel Dimensions**

Note: 4000 pcs/Reel

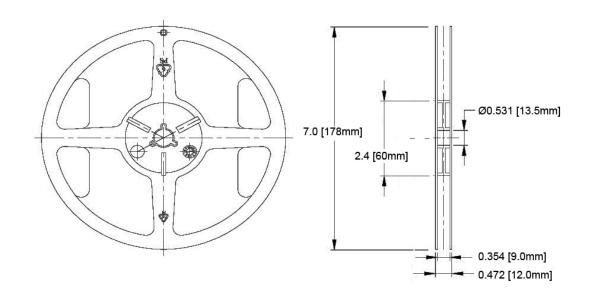


#### Outline Drawings Notes:

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

# SURFACE MOUNT LED RED, 0603 PACKAGE

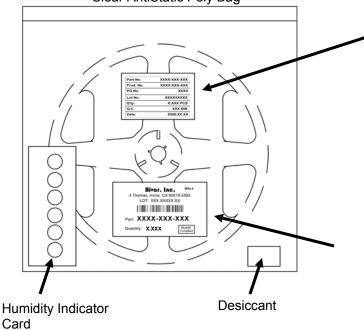




## **Packaging and Labeling Plan**

Note: 1 Reel / Bag

Vacuum and Heat Sealed Clear AntiStatic Poly Bag



#### Outline Drawings Notes: 1 All dimensions are in inc

1. All dimensions are in inches [millimeters].

2. Standard tolerance unless otherwise noted: X.XXX ± 0.010"

 $X.XXX \pm 0.01$  $X.X \pm 0.1$ "

XXXX-XXX-XXX					
XXXX-XXX-XXX					
xxxx					
XXXXXXXX					
X.XXX PCS					
XXX BIN					
2008.XX.XX					

Internal Quality Control

#### Bivar. Inc.

MSL4

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



Part: XXXX-XXX

Quantity: X.XXX

RoHS Compliant

Bivar Standard Packaging Label

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EASV1803BA0 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 CMD91-21VRC/TR7