SURFACE MOUNT LED RED, 0603 PACKAGE



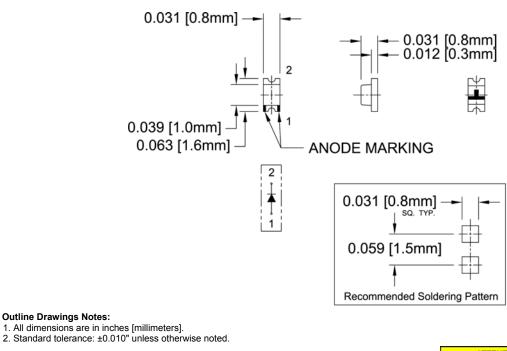
SM0603SRC

- 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	
SM0603SRC	AlGaAs	RED	660	Water Clear	28	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

Power Dissipation	69 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
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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)	Dominant		Luminous Intensity Iv (mcd)			Viewing Angle 2 O ½ (deg)			
	MIN	TYP	MAX	MIN	ΤΥΡ	MAX	MAX	MIN	TYP	MAX	MIN	TYP	MAX	ТҮР
SM0603SRC	/	1.85	2.3	/	20	/	10	/	640	/	15	28	/	130

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

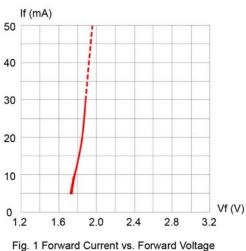
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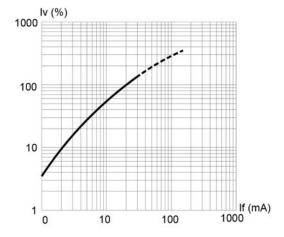


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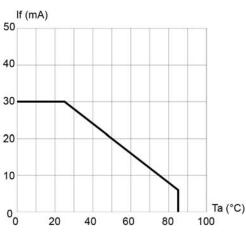
Typical Electrical / Optical Characteristics

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

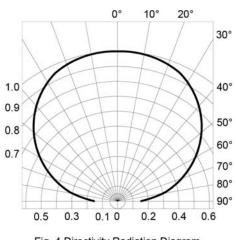




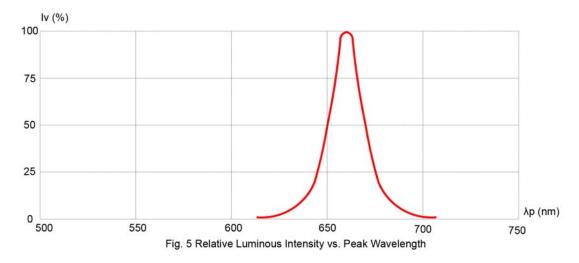










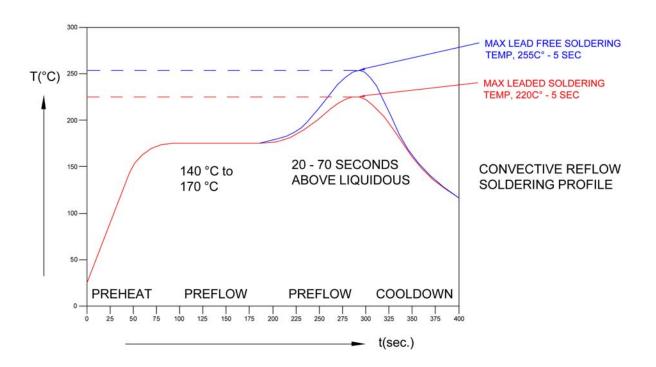


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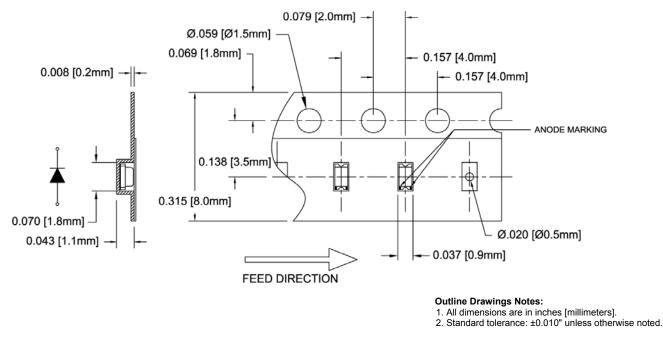
SURFACE MOUNT LED RED, 0603 PACKA<u>GE</u>



Recommended Soldering Conditions



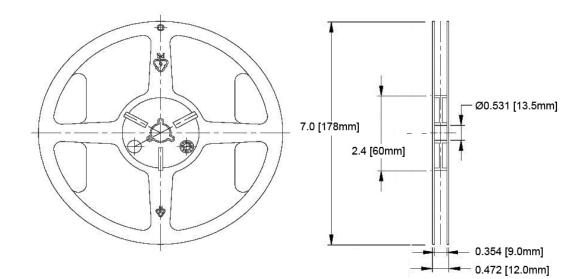
Tape and Reel Dimensions Note: 4000 pcs/Reel



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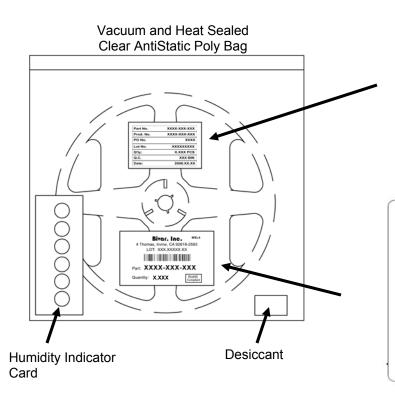


Outline Drawings Notes:

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

X.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

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