SURFACE MOUNT LED RED/GREEN, 0605 PACKAGE



SM0605BC

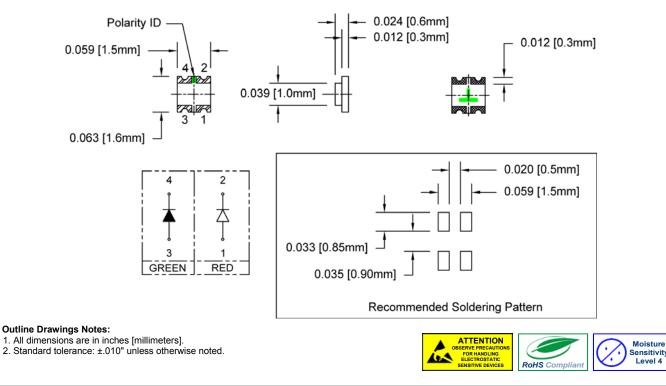
- Industry Standard 0605 Package
- RoHS Compliant
- 2 Chips in One Small Package and Footprint
- Water Clear Lens
- Wide Viewing Angle
- Ideal for Status Indication, Display, and Backlighting



Bivar now offers its smallest Bi-Color Surface Mount LED to date which gives designers the edge they need for smaller board designs that require multiple color outputs. Its miniature size makes it ideal for almost any application where board space is a priority without compromise to quality, and it's long life and low power consumption are more than suitable for battery powered hand held devices and other portable products. This SM0605 LED is packaged in standard tape and reels for auto pick and place assemblies.

Part Number	Material	Emitted Color	Peak Wavelength λp (nm) TYP.	Lens Appearance	Luminous Intensity (mcd) TYP.	Viewing Angle	
SM0605BC	AlGaInP	RED	630	Water Clear	120	- 120°	
SIVIUUUSBC	AlGaInP	GREEN	575	Water Clear	60	120	

Outline Dimensions



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



Absolute Maximum Ratings

 T_A = 25°C unless otherwise noted

Power Dissipation	Red - 72 mW Green - 72 mW		
Continuous Forward Current	Red - 30 mA Green - 30 mA		
Peak Forward Current ¹	100 mA		
Reverse Voltage	5 V		
Derating Linear From 25°C	0.4 mA/°C		
Electrostatic Discharge (HBM)	2000 V		
Operating Temperature Range	-30 ~ +80°C		
Storage Temperature Range	-40 ~ +85°C		
Lead Soldering Temperature ²	260°C		

Notes: $1. \le 10\%$ Duty Cycle, Pulse Width ≤ 0.1 msec. 2. Solder time less than 5 seconds at temperature extreme.

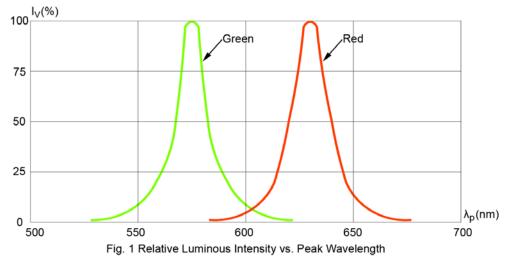
Electrical / Optical Characteristics

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

Part Number	Emitted Color	Forward Voltage (V)		Recommend Forward Current (mA)		Dominant Wavelength (nm)		Luminous Intensity Iv (mcd)			Viewing Angle 2 O ½ (deg)			
		MIN	TYP	MAX	MIN	TYP	MAX	MIN	TYP	MAX	MIN	ТҮР	MAX	ТҮР
SM0605BC	Red	/	1.9	2.4	/	20	/	/	625	/	72	120	/	120
	Green	/	1.9	2.4	/	20	/	/	574	/	36	60	/	

Typical Electrical / Optical Characteristics

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



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Typical Electrical / Optical Characteristics (Continued)

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

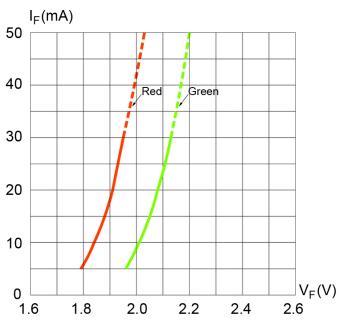


Fig. 2 Forward Current vs. Forward Voltage

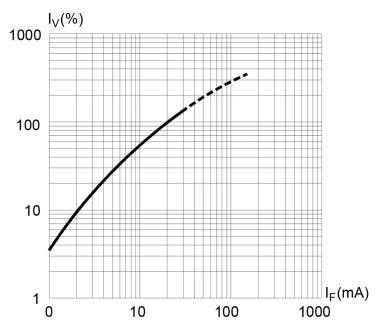
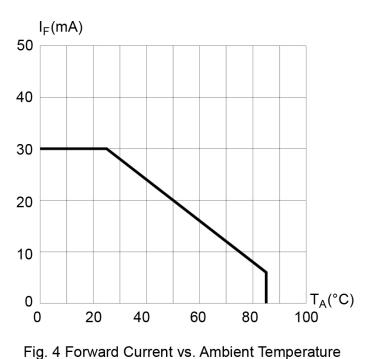
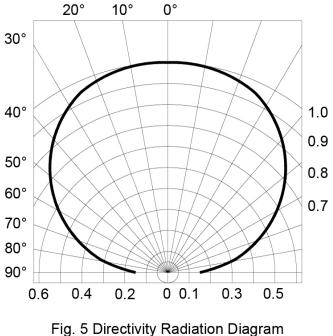


Fig. 3 Relative Luminous Intensity vs. Forward Current



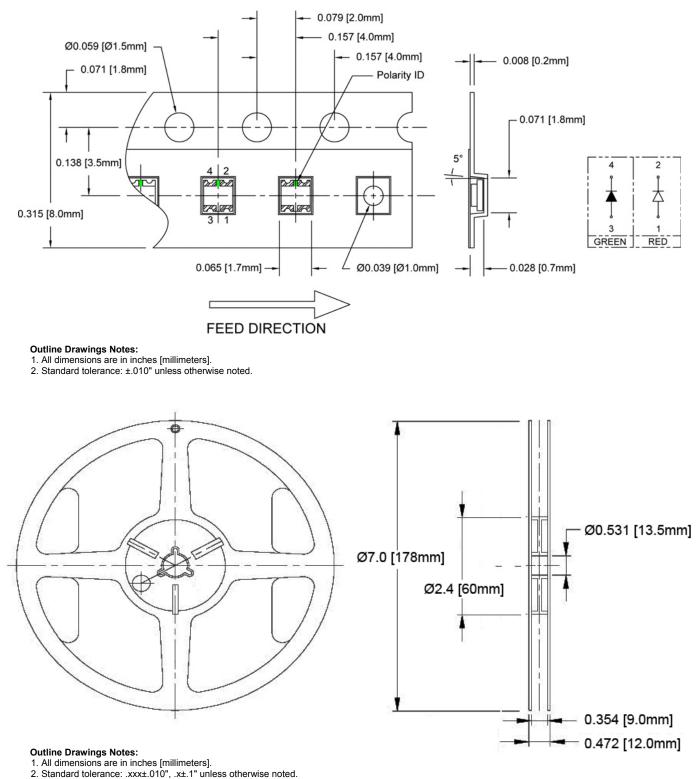


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Tape and Reel Dimensions

Note: 4000 pcs / Reel

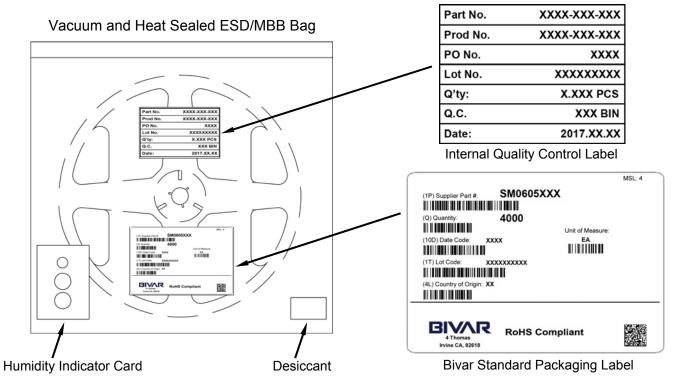


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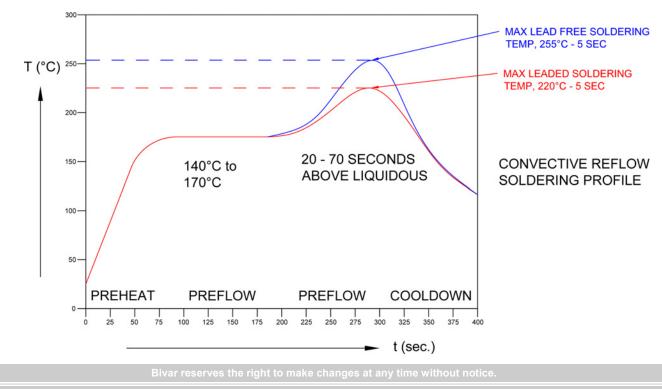


Packaging and Labeling Plan

Note: 1 Reel / Bag



Recommended Soldering Conditions



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