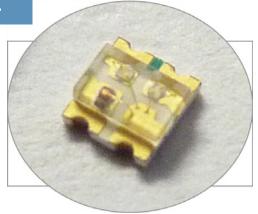
BIVAR

SM0605RGB

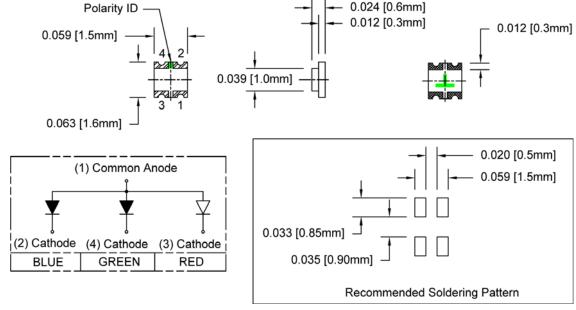
- ♦ Industry Standard 0605 Package
- **♦** RoHS Compliant
- ♦ 3 Chips in One Small Package and Footprint
- Water Clear Lens
- Wide Viewing Angle
- Ideal for Status Indication, Display, and Backlighting



Bivar now offers its smallest Tri-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 λρ (nm) TYP.	Lens Appearance	Luminous Intensity (mcd) TYP.	Viewing Angle	
SM0605RGB	AlGaInP	RED	630		120	120°	
	InGaN	GREEN	523	Water Clear	700		
	InGaN	BLUE	468		145		

Outline Dimensions



Outline Drawings Notes:

- 1. All dimensions are in inches [millimeters].
- 2. Standard tolerance: ±.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	Red - 78 mW Green - 108 mW Blue - 108 mW	
Continuous Forward Current	Red - 30 mA Green - 25 mA Blue - 25 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. ≤ 10% Duty Cycle, Pulse Width ≤ 0.1 msec. 2. Solder time less than 5 seconds at temperature extreme.

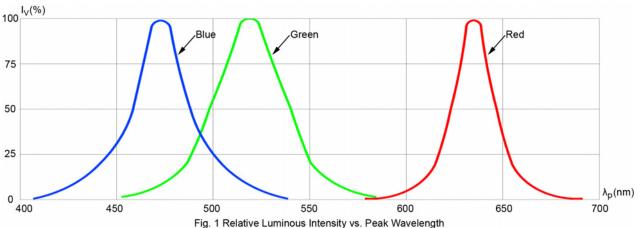
Electrical / Optical Characteristics

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

Part Number	Emitted Color		orwai ltage	-	Recommend Forward Current (mA) Dominant Wavelength (nm)					Luminous Intensity Iv (mcd)			Viewing Angle 2 Θ ½ (deg)	
		MIN	TYP	MAX	MIN	TYP	MAX	MIN	TYP	MAX	MIN	TYP	MAX	TYP
	Red	/	2.0	2.4	1	20	/	1	625	/	72	120	/	
SM0605RGB	Green	/	3.1	4.2	1	20	/	/	525	/	450	700	/	120
	Blue	/	2.9	4.2	1	20	/	1	470	/	90	145	/	

Typical Electrical / Optical Characteristics

 $T_A = 25$ °C & $I_F = 20$ mA unless otherwise noted

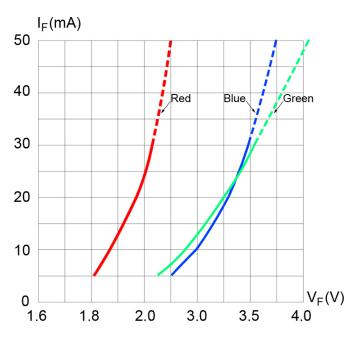


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Typical Electrical / Optical Characteristics (Continued)

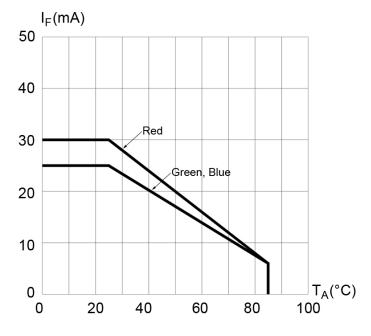
T_A = 25°C unless otherwise noted

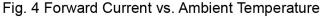


1000
100
100
100
100
100
100
100
1000

Fig. 2 Forward Current vs. Forward Voltage

Fig. 3 Relative Luminous Intensity vs. Forward Current





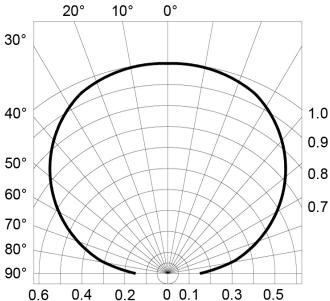
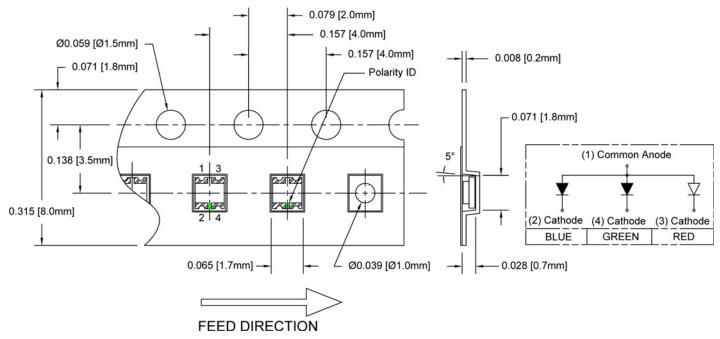


Fig. 5 Directivity Radiation Diagram



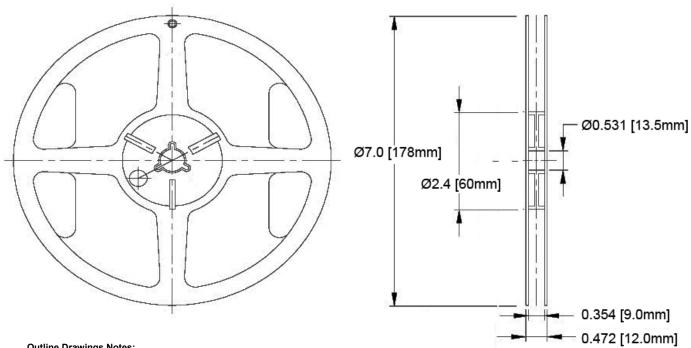
Tape and Reel Dimensions

Note: 4000 pcs / Reel



Outline Drawings Notes:

- All dimensions are in inches [millimeters].
- 2. Standard tolerance: ±.010" unless otherwise noted.



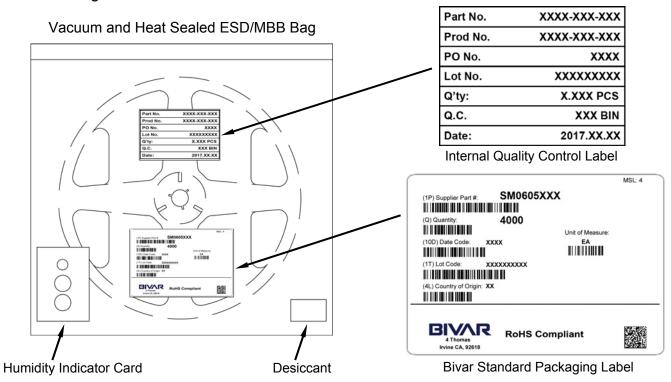
Outline Drawings Notes:

- 1. All dimensions are in inches [millimeters].
- 2. Standard tolerance: .xxx±.010", .x±.1" unless otherwise noted.

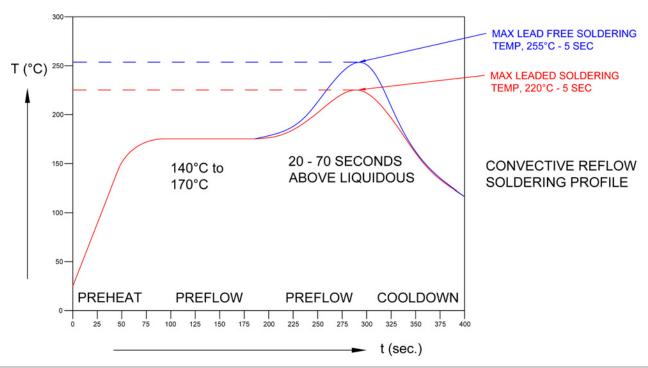


Packaging and Labeling Plan

Note: 1 Reel / Bag



Recommended Soldering Conditions



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