BIVAR

SM1210RGY

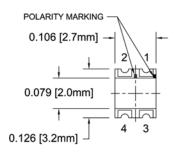
- ♦ Industry Standard Package
- ♦ RoHS Compliant
- ♦ Three Chips in One Package
- **♦** Water Clear Lens
- **♦ Wide Viewing Angle**
- ♦ Ideal for Status Indication and Lighting

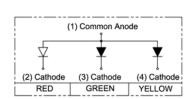


Bivar Surface Mount 1210 package RGY LED combines three chips in a single package. They are ideal for small scale applications where multiple signals need to be displayed. Wide variety of colors can be created by simply mixing the three chips in different combinations. Bivar offers water clear LED lens for high luminous intensity and wide viewing angles making them suitable for lighting and display applications. The SM1210 RGY LED is packaged in standard tape and reels for pick and place assemblies.

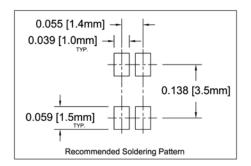
Part Number	Material	Emitted Color	Peak Wavelength λp(nm) TYP.	Lens Appearance	Luminous Intensity (mcd) TYP.	Viewing Angle	
SM1210RGY	GaAsP/GaP	HE RED	635		16	140°	
	GaP	GREEN	568	Water Clear	15		
	GaAsP/GaP	YELLOW	585		10		

Outline Dimensions





- 0.043 [1.1mm] - 0.020 [0.5mm]



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	100 mW	
Forward Current (DC)	30 mA	
Peak Forward Current ¹	150 mA	
Reverse Voltage	5 V	
Operating Temperature Range	-25 ~ +85°C	
Storage Temperature Range	-30 ~ +100°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

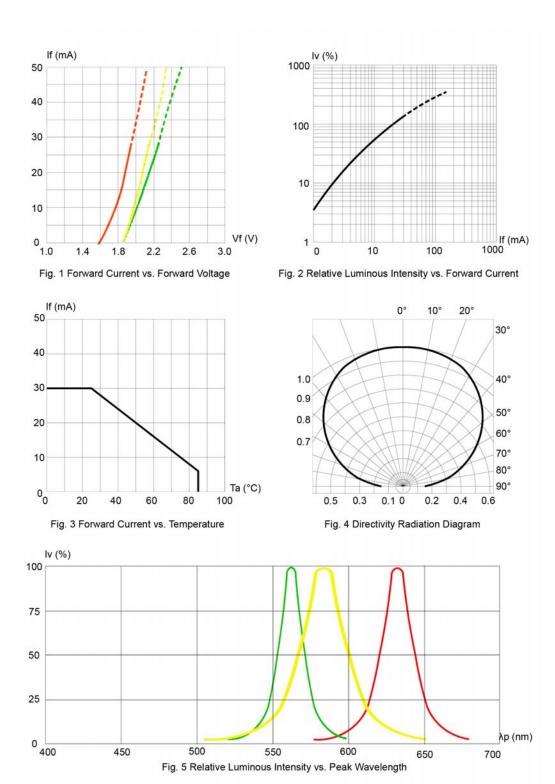
 $T_A = 25$ °C & $I_F = 20$ mA unless otherwise noted

Part Number	Emitted color	Forward Voltage (V) ¹		Recommend Forward Current (mA)		Reverse Current (μΑ)	Dominant Wavelength (nm) ²		Luminous Intensity Iv (mcd)			Viewing Angle 2 O ½ (deg)			
		MIN	TYP	MAX	MIN	TYP	MAX	MAX	MIN	TYP	MAX	MIN	TYP	MAX	TYP
SM1210RGY	HE RED	/	1.9	2.6	/	20	/	100	1	/	1	1	16	/	
	GREEN	1	2.1	2.6	1	20	/	100	/	1	1	1	15	1	140
	YELLOW	/	2.1	2.6	/	20	/	100	1	1	1	1	10	1	

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

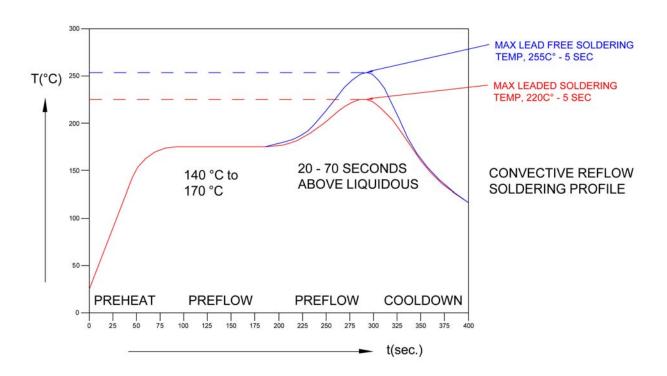


Typical Electrical / Optical Characteristics T_A = 25°C unless otherwise noted



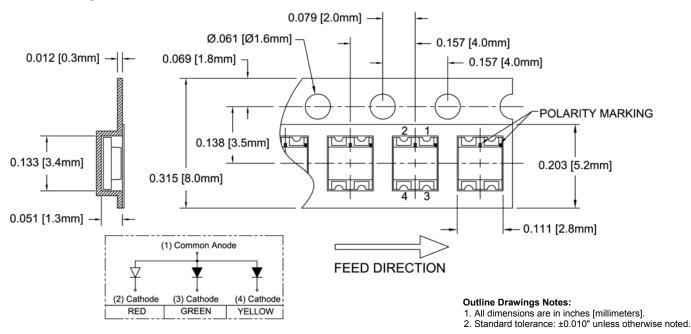


Recommended Soldering Conditions



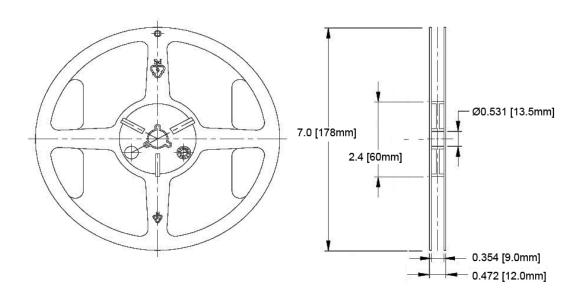
Tape and Reel Dimensions

Note: 3000 pcs/Reel



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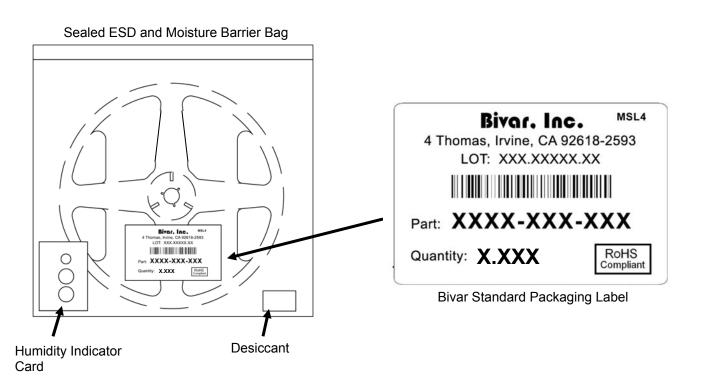
Outline Drawings Notes:

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

X.X ± 0.1

Packaging and Labeling Plan

Note: 1 Reel / Bag



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

BIVAR: SM1210RGY