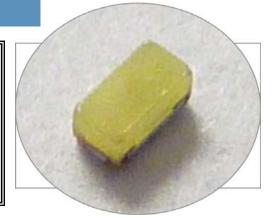
SM0402UWC

- Industry Standard 0402 Package
- RoHS Compliant
- Small Package and Footprint
- Diffused Lens
- Wide Viewing Angle
- Ideal for Status Indication, Display, and Backlighting

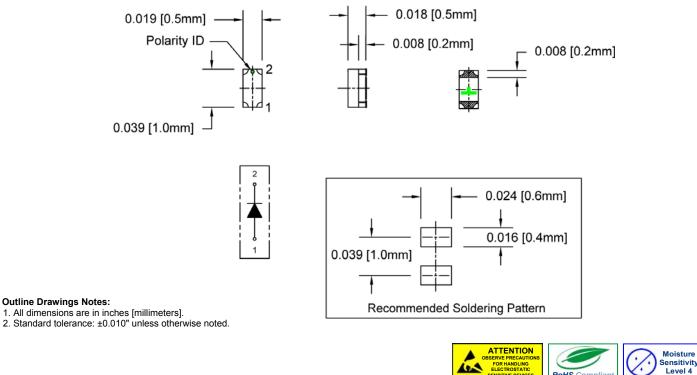


BIAVB

Bivar Surface Mount 0402 package LED can be used in nearly any lighting or indication application. It's ultra-miniature packaging makes it ideal for smaller handheld devices, small back panel displays, and any other size constraint applications. Low power consumption and excellent long life reliability makes it excellent for battery powered equipment and applications. The SM0402 LED is packaged in standard tape and reels for pick and place assemblers.

Part Number	Material	Emitted Color	Chromaticity Coordinates	Lens Appearance	Luminous Intensity (mcd) TYP.	Viewing Angle	
SM0402UWC	InGaN	WHITE	X = .30, Y = .30	Diffused	600	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	100 mW		
Continuous Forward Current	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: $1. \le 10\%$ 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

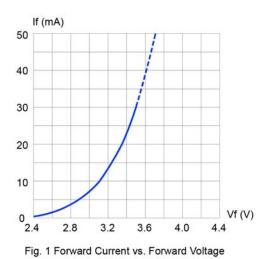
Part Number	Forward Voltage (V)			Recommend Forward Current (mA)		Reverse Current (µA)	Dominant		Luminous Intensity Iv (mcd)			Viewing Angle 2 O ¹ / ₂ (deg)		
	MIN	ΤΥΡ	MAX	MIN	TYP	MAX	MAX	MIN	ΤΥΡ	MAX	MIN	ТҮР	MAX	TYP
SM0402UWC	/	3.1	4.0	/	20	/	10	n/a	n/a	n/a	450	600	/	130

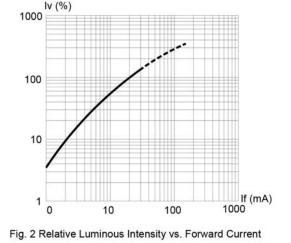
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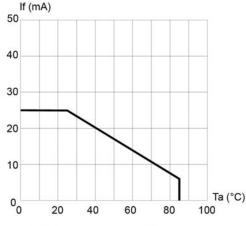


Typical Electrical / Optical Characteristics

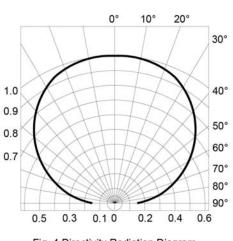
 $T_A = 25^{\circ}C$ unless otherwise noted



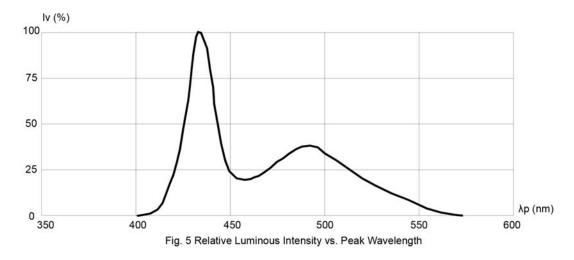








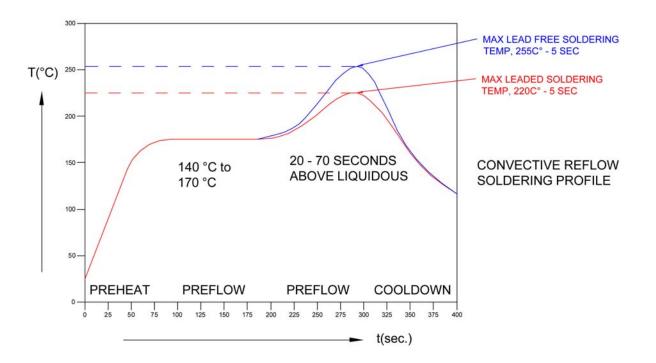




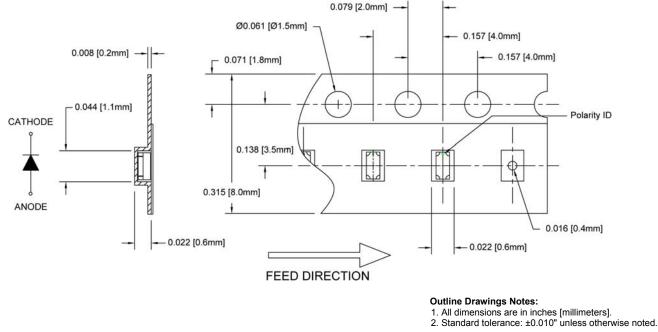
Bivar reserves the right to make changes at any time without notice.



Recommended Soldering Conditions

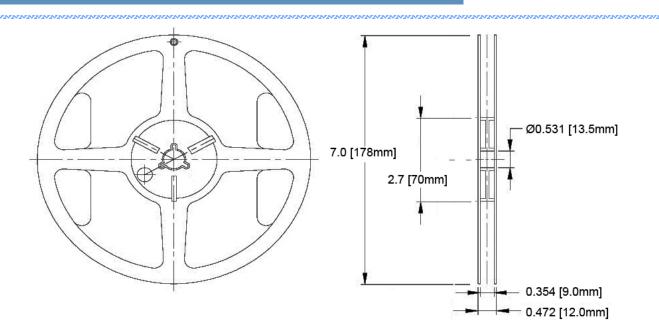


Tape and Reel Dimensions Note: 5000 pcs / Reel



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



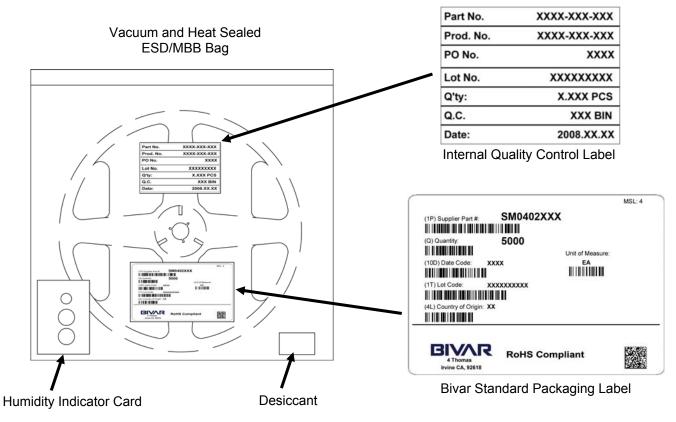


Outline Drawings Notes: 1. All dimensions are in inches [millimeters].

2. Standard tolerance unless otherwise noted: X.XXX $\pm 0.010^{\circ}$

X.X ± 0.1"

Packaging and Labeling Plan Note: 1 Reel / Bag



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