

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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PLCC2 SMD Top View Package LED SMTL2-UYC, ULTRA YELLOW



SMTL2-UYC

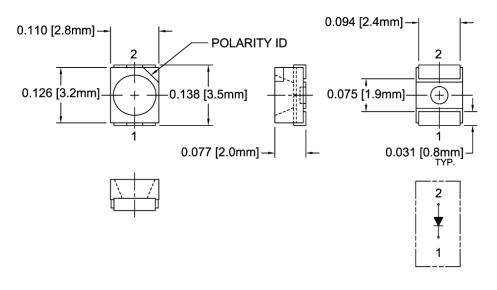
- **Industry Standard PLCC2 Footprint**
- Low Profile Package
- **High Luminous Intensity**
- Wide Viewing Angle
- **High Power Efficiency**

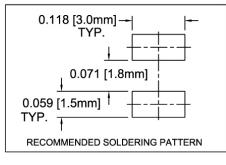


Bivar SMTL2 LED is offered in an industry standard PLCC2 package with high luminous intensity and wide viewing angles. The miniature package is ideal for small scale applications such as illumination, general indication, and backlighting. Low power consumption and excellent long life reliability are suitable for battery powered equipment. The robust package is ideal for harsh working environments and can be used in clusters for high luminous applications. Wide variety of color and intensity combinations are available to meet any illumination needs. Bivar SMTL2 LED is packaged in standard tape and reels for pick and place assemblies.

Part Number	Material	Emitted Color	Lumen Typ. mcd	Lens Color	Viewing Angle
SMTL2-UYC	AlGalnP	Ultra Yellow	450	Water Clear	120°

Outline Dimensions





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







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Absolute Maximum Ratings

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

Power Dissipation	72 mW
Continuous Forward Current	30 mA
Peak Forward Current ¹	100 mA
Reverse Voltage	5 V
Derating Linear From 25°C	0.4 mA/°C
Operating Temperature Range	-40 ~ +85°C
Storage Temperature Range	-40 ~ +100°C
Lead Soldering Temperature (1.6 mm from body) ²	260°C
Electrostatic Discharge (HBM)	2000 V

Electrical Characteristics

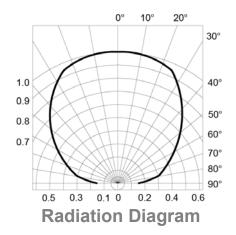
 $T_A = 25$ °C & $I_F = 20$ mA unless otherwise noted

Emitting Color		ward ge (V) ¹	Recommend Forward Current (mA)	Reverse Current (μA) V _R =5V		Domina elength	-	Lumi Intensit	nous y (mcd) ³	Viewing Angle 2 Θ ½ (deg)
	TYP	MAX	TYP	MAX	MIN	TYP	MAX	MIN	TYP	TYP
Ultra Yellow	1.9	2.4	20	100	585	591	594	285	450	120

Notes: 1. Tolerance of Forward Voltage: ±0.05V.

Directivity Radiation

 $T_A = 25$ °C unless otherwise noted



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

Notes: 1. 10% Duty Cycle, Pulse Width ≤ 0.1 msec.

^{2.} Solder time less than 5 seconds at temperature extreme.

^{2.} Tolerance of Dominant Wavelength: ±0.1nm.

^{3.} Tolerance of Luminous Intensity: ±15%.

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Typical Electrical / Optical Characteristics Curves

 $T_A = 25$ °C unless otherwise noted

Relative Spectrum Emission $I_{rel} = f(I)$, $T_A = 25$ °C , $I_F = 20$ mA V(I) = Standard eye response curve

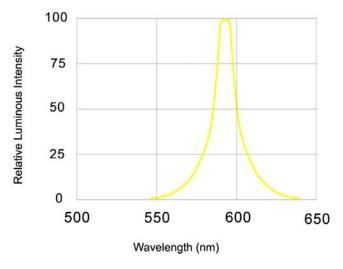


Fig.1 Relative Luminous Intensity vs. Wavelength

Forward Current $I_F = f(V_F)$ $T_A = 25$ °C

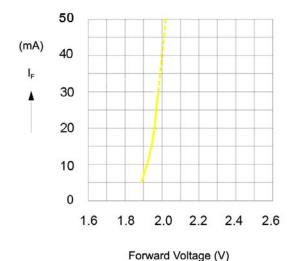


Fig.2 Forward Current vs. Forward Voltage

Relative Luminous Intensity I_v/I_v (20 mA) = f (I_F) $T_A = 25$ °C

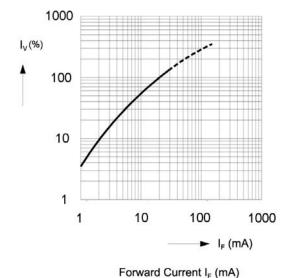
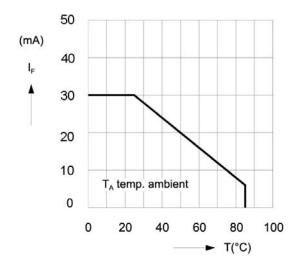


Fig.3 Relative Luminous Intensity vs. Forward Current

Ambient Temperature vs. Allowable Forward Current



Ambient Temperature T_A (°C)

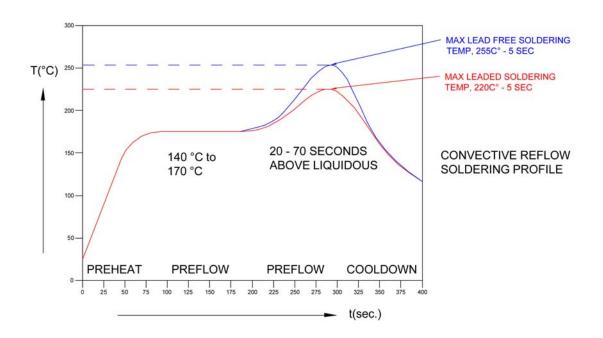
Fig.4 Forward Current vs. Ambient Temperature

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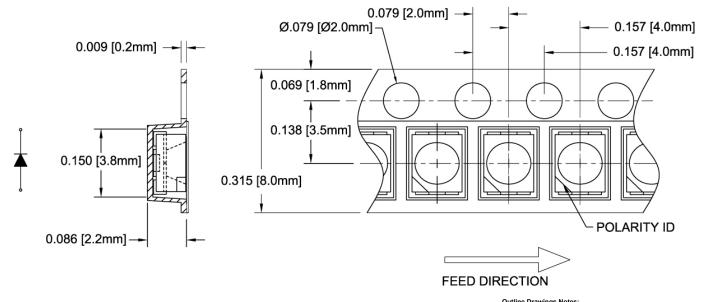


Recommended Soldering Conditions



Tape and Reel Dimensions

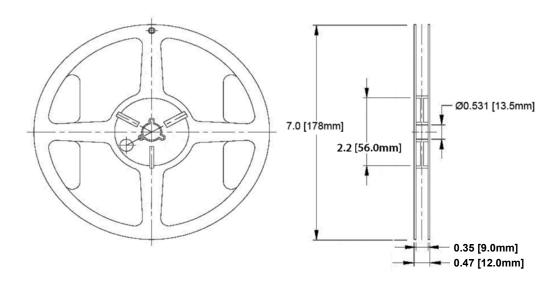
Note: 2000 pcs/Reel



Outline Drawings Notes:
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2. Standard tolerance: ±0.010" unless otherwise noted.

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Outline Drawings Notes:

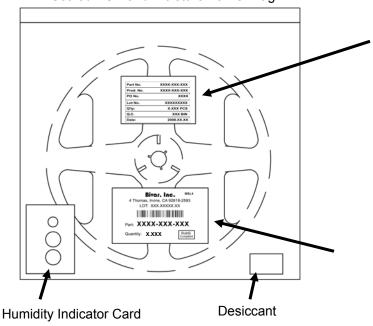
- 1. All dimensions are in inches [millimeters].
- 2. Standard tolerance unless otherwise noted: X.XXX ± 0.010"

X.X ± 0.1"

Packaging and Labeling Plan

Note: 1 Reel / Bag

Sealed ESD and Moisture Barrier Bag



Part No.	XXXX-XXX-XXX				
Prod. No.	xxxx-xxx-xxx				
PO No.	xxx				
Lot No.	XXXXXXXX				
Q'ty:	X.XXX PCS				
Q.C.	XXX BI				
Date:	2008.XX.XX				

Internal Quality Control Label

Bivar, Inc.

MSL4

4 Thomas, Irvine, CA 92618-2593 LOT: XXX.XXXXXXXX



Part: XXXX-XXX

Quantity: X,XXX

RoHS Compliant

Bivar Standard Packaging Label