PLCC2 SMD Top View Package LED SMTL2-SBWC, SUPER BLUE



SMTL2-SBWC

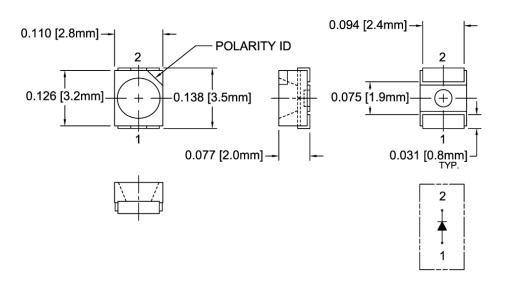
- **Industry Standard PLCC2 Footprint**
- Low Profile Package
- **High Luminous Intensity**
- Wide Viewing Angle
- **High Power Efficiency**

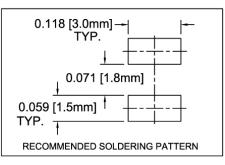


Bivar SMTL2 LED is offered in an industry standard PLCC2 package with high luminous intensity and wide viewing angles. The miniature package is ideal for small scale applications such as illumination, general indication, and backlighting. Low power consumption and excellent long life reliability are 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-SBWC	InGaN	Super Blue	285	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	100 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

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

Electrical Characteristics

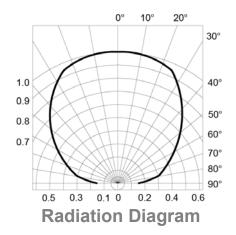
 $T_A = 25$ °C & $I_F = 20$ mA unless otherwise noted

Emitting Color	• • • •		Recommend Forward Current (mA)	Reverse Current (µA) V _R =5V	Dominant Wavelength (nm) ²		Luminous Intensity (mcd) ³		Viewing Angle 2 Θ ½ (deg)	
	TYP	MAX	TYP	MAX	MIN	TYP	MAX	MIN	TYP	TYP
Super Blue	3.2	3.5	20	10	463	470	471	115	285	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

^{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

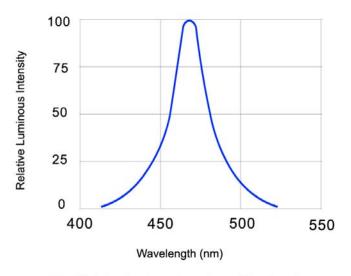


Fig.1 Relative Luminous Intensity vs. Wavelength

Forward Current $I_F = f(V_F)$ $T_\Delta = 25$ °C

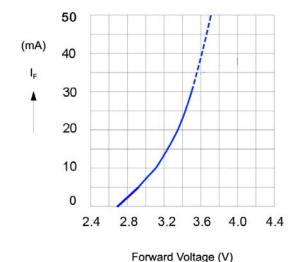


Fig.2 Forward Current vs. Forward Voltage

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

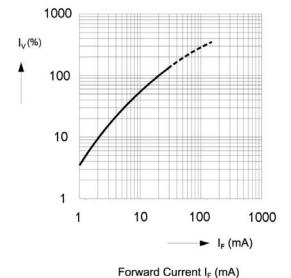
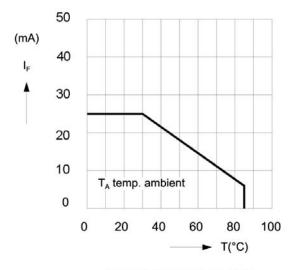


Fig.3 Relative Luminous Intensity vs. Forward Current

Ambient Temperature vs. Allowable Forward Current



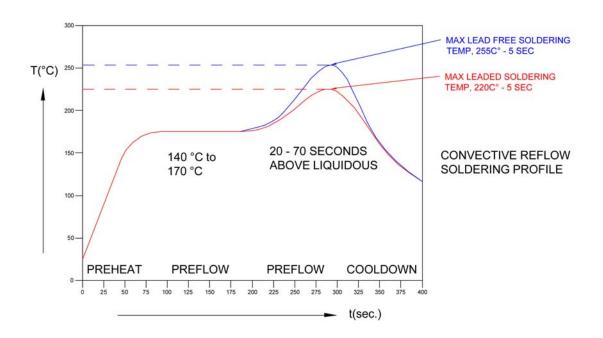
Ambient Temperature T_A (°C)

Fig.4 Forward Current vs. Ambient Temperature

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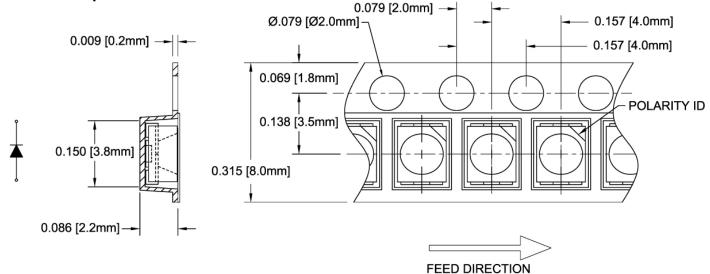


Recommended Soldering Conditions



Tape and Reel Dimensions

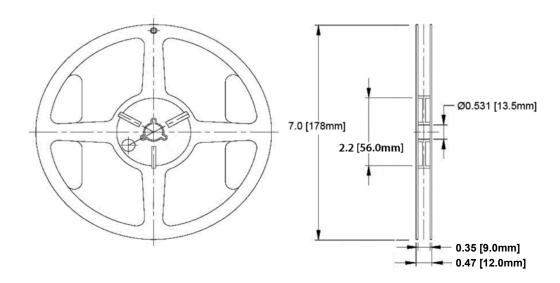
Note: 2000 pcs/Reel



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

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Outline Drawings Notes:

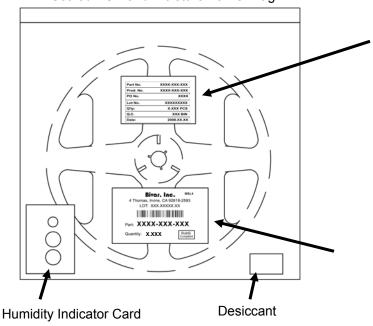
- 1. All dimensions are in inches [millimeters].
- 2. Standard tolerance unless otherwise noted: X.XXX ± 0.010"

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.	xxxx				
Lot No.	XXXXXXXXX X.XXX PCS				
Q'ty:					
Q.C.	XXX BIN				
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

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

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LTST-C19GD2WT LTST-N683GBEW LTW-170ZDC LTW-M140SZS40 598-8110-100F 598-8170-100F 598-8610-202F 67
22VRVGC/TR8 AAAF5060QBFSEEZGS HLMP-6305-L0011 ALMD-LB36-SV002 APT1608QGW 15-21UYC/S530-A3/TR8

EASV1803BA0 LG M67K-H1J2-24-0-2-R18-Z LS A676-P2S1-1 SML310BATT86 SML-512VWT86A SML-LX0606SISUGC/A SML
LXL1307SRC-TR SML-LXR851SIUPGUBC LT1ED53A FAT801-S AM27ZGC03 APB3025SGNC APFA3010SURKCGKQBDC

APHK1608VGCA APT2012QGW CLX6D-FKB-CN1R1H1BB7D3D3 LTST-C250KGKT LTW-020ZDCG LTW-21TS5 LTW-220DS5

JANTXM19500/521-02 UYGT801-S LO T67F-V1AB-24-1 YGFR411-H SML-LX0402IC-TR CMDA20AYAA7D1S CMDA16AYDR7A1X

339-1SURSYGW/S530-A2 598-8040-100F 598-8070-100F 598-8140-100F 598-8610-200F EAPL3527GA5 67-11/BHC-M1N2B8Y/2A0

SML-LXL1209SYC/ATR EASV3020YGA0 EAST16086YA5