PLCC2 SMD Top View Package LED SMTL2-HC, HE RED



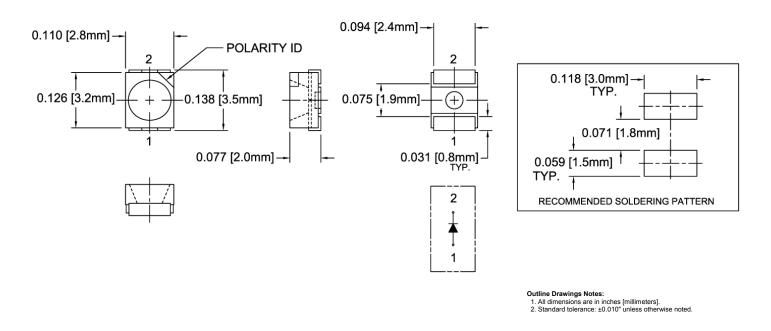
SMTL2-HC

- 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-HC	GaAsP	HE Red	11	Water Clear	120°

Outline Dimensions







Absolute Maximum Ratings

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

Power Dissipation	80 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
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 \leq 0.1 msec.

2. Solder time less than 5 seconds at temperature extreme.

Electrical Characteristics

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

Emitting Color			Recommend Forward Current (mA)	(1)		Dominant avelength (nm) ²		Luminous Intensity (mcd) ³		Viewing Angle 2 ⊖ ½ (deg)
	ТҮР	MAX	ТҮР	MAX	MIN	ТҮР	MAX	MIN	ТҮР	ТҮР
HE Red	2.0	2.6	20	100	620	628	636	6	11	120

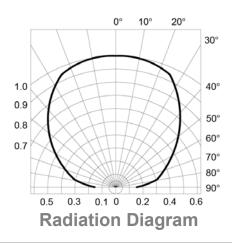
Notes: 1. Tolerance of Forward Voltage : ±0.05V.

2. Tolerance of Dominant Wavelength : ±0.1nm.

3. Tolerance of Luminous Intensity : ±15%.

Directivity Radiation

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





Typical Electrical / Optical Characteristics Curves

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

T_A = 25°C

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

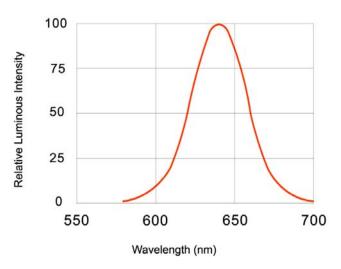


Fig.1 Relative Luminous Intensity vs. Wavelength

Forward Current $I_F = f(V_F)$ $T_A = 25^{\circ}C$

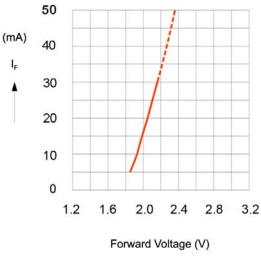
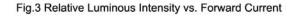


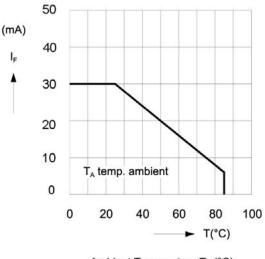
Fig.2 Forward Current vs. Forward Voltage

Relative Luminous Intensity I_v/I_v (20 mA) = f (I_F)

Forward Current I_F (mA)



Ambient Temperature vs. Allowable Forward Current

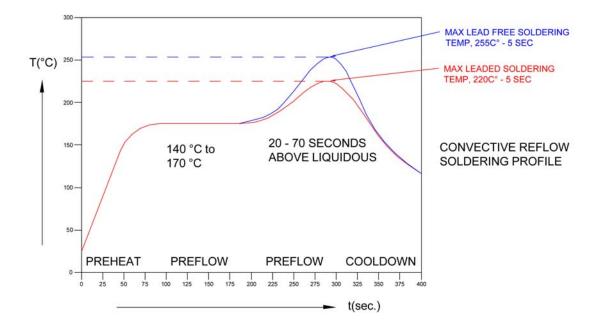


Ambient Temperature T_A (°C)

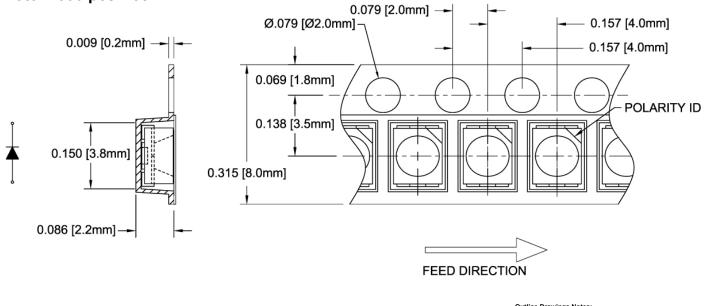
Fig.4 Forward Current vs. Ambient Temperature



Recommended Soldering Conditions



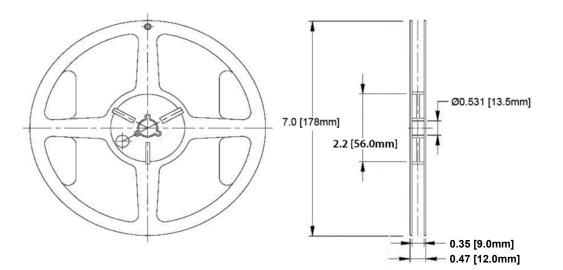
Tape and Reel Dimensions Note: 2000 pcs/Reel



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

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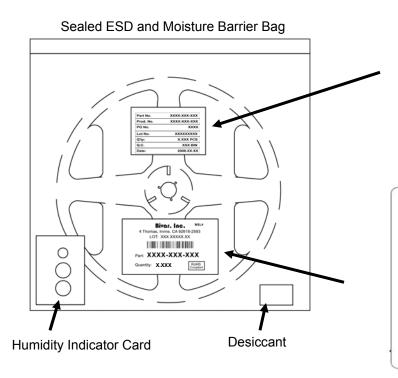
Outline Drawings Notes:

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

X.XXX ± 0.01 X.X ± 0.1"

Packaging and Labeling Plan

Note: 1 Reel / Bag



Part No.	XXXX-XXX-XXX
Prod. No.	XXXX-XXX-XXX
PO No.	XXXX
Lot No.	XXXXXXXXXX
Q'ty:	X.XXX PCS
Q.C.	XXX BIN
Date:	2008.XX.XX

Internal Quality Control Label

Bivar. Inc.	MSL4
4 Thomas, Irvine, CA 92618	-2593
LOT: XXX.XXXXX.XX	
Part: XXXX-XXX-X	ХХ
Quantity: X.XXX	RoHS Compliant

Bivar Standard Packaging Label

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

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