PLCC2 SMD Side View Package LED SMS1105PKD, PINK



SMS1105PKD

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

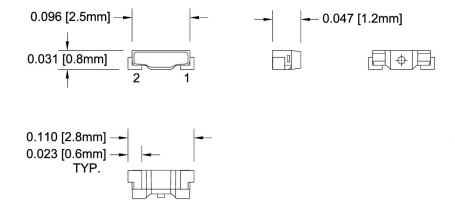


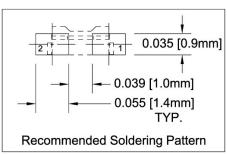
Bivar SMS1105 LED is offered in a side viewing PLCC2 package exhibiting high luminous intensity and wide viewing angles. The miniature package is ideal for small scale applications such as displays, general indication, and backlighting. Low power consumption and excellent long life reliability are suitable for battery powered equipment where minimal maintenance is required. Wide variety of color and intensity combinations are available to meet any illumination needs. Bivar SMS1105 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
SMS1105PKD	InGaN	Pink	200	Diffused	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

 $T_A = 25$ °C unless otherwise noted

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

Electrical Characteristics

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

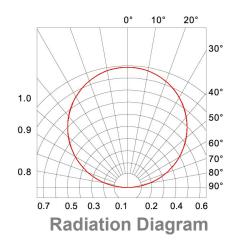
Emitting Color	Forward Voltage (V) ¹		Recommend Forward Current (mA)	Reverse Current (µA) V _R =5V	Chromaticity Coordinates (XY) ²	Luminous Intensity (mcd) ³		Viewing Angle 2 Θ ½ (deg)	
	MIN	TYP	MAX	TYP	MAX	TYP	MIN	MAX	TYP
Pink	3.0	3.4	3.8	20	10	X=0.455 , Y=0.215	100	300	120

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

- 2. Tolerance of Chromaticity Coordinates: ±0.02.
- 3. Tolerance of Luminous Intensity: ±15%.

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.

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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

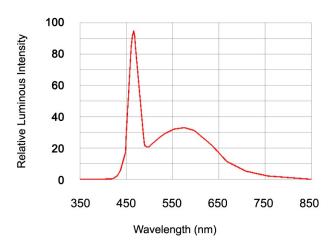


Fig.1 Relative Luminous Intensity vs. Wavelength

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

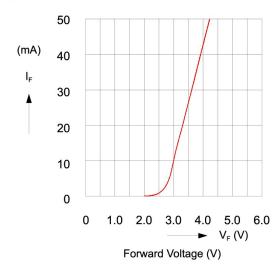


Fig.2 Forward Current vs. Forward Voltage

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

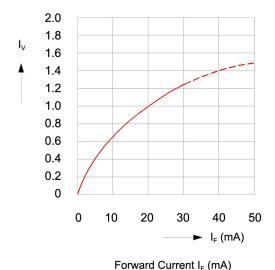


Fig.3 Relative Luminous Intensity vs. Forward Current

Ambient Temperature vs. Allowable Forward Current

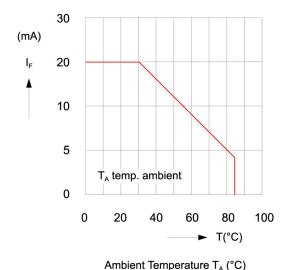


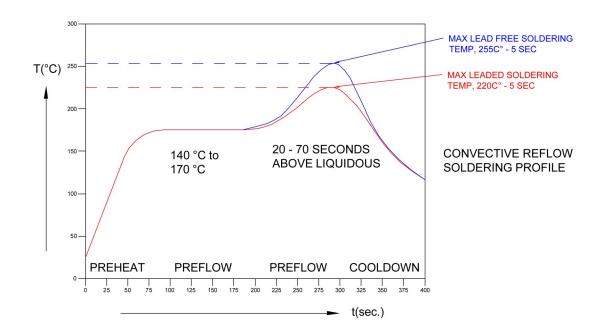
Fig.4 Forward Current vs. Ambient Temperature

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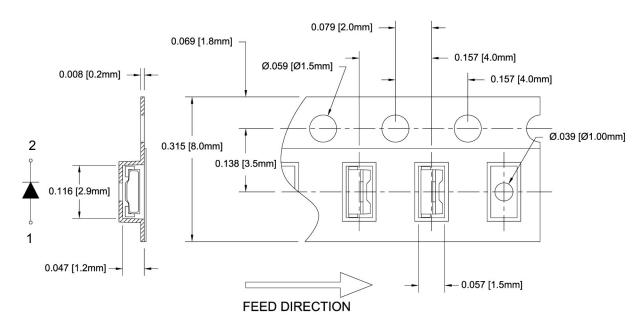


Recommended Soldering Conditions



Tape and Reel Dimensions

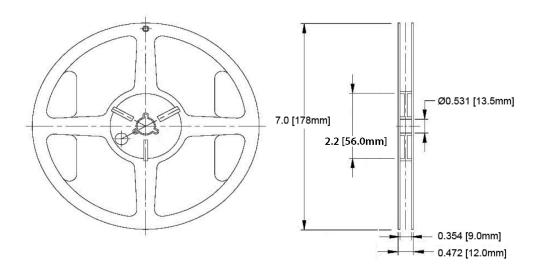
Note: 3000 pcs/Reel



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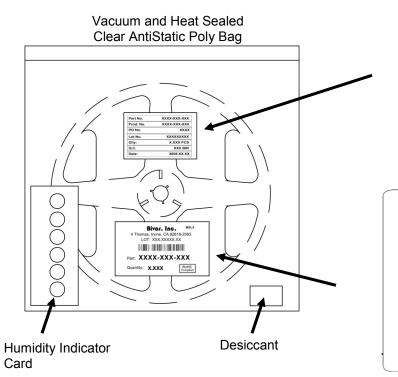
Outline Drawings Notes:

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

 $X.X \pm 0.1"$

Packaging and Labeling Plan

Note: 1 Reel / Bag



VVVV VVV VVV		
XXXX-XXX-XXX		
XXXX-XXX-XXX		
XXXX		
XXXXXXXXX		
X.XXX PCS		
XXX BIN		
2008.XX.XX		

Internal Quality Control Label

Bivar. Inc.

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



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 597-3006-607F LTW-170ZDC 597-3403-607F LTW-K140SZR40 LTW-M140ZVS 598-8110-100F 598-8170-100F 598-8610-202F 7012X7 AAAF5060QBFSEEZGS 1383SURT/S530-A3/TR1(R) APT1608QGW EASV1803BA0 HSMQ-C197 SML310BATT86 SML-512VWT86A SML-LX0606SISUGC/A SML-LXL1307SRC-TR SML-LXR851SIUPGUBC LT1ED53A FAT801-S SSL-LXA227IC-TR31A AM27ZGC03 APB3025SGNC APFA3010SURKCGKQBDC APHK1608VGCA APT2012QGW CLMVC-FKA-CA1E1L81BB7C3C3 CLYBA-FKA-CFHHKL9BBB7A363 CMD11504UR LTST-C250KGKT LTW-020ZDCG LTW-21TS5 LTW-K140SZR30 HSMY-C177 UYGT801-S KVH1C100MF6R YGFR411-H 597-2311-402F 597-2712-602F 5973212407NF 597-3302-607F 597-5202-407F 598-8330-117F SAW8WA2A-L35M40-CA SML013WBDW1 SML522BUWT86 SML-LX0402IC-TR