PLCC2 SMD Side View Package LED SMS1105GC, GREEN



SMS1105GC

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



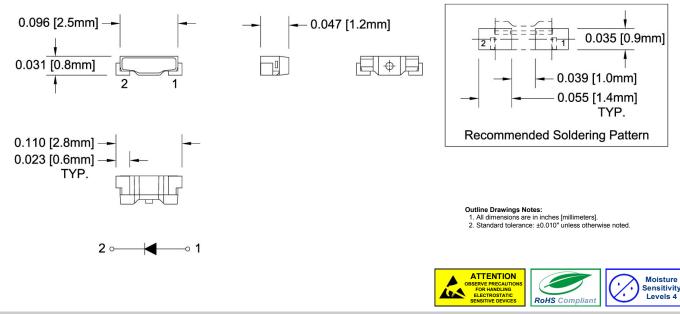
ていちょうひょう ひょうひょう ひょうひょう ひょうひょう ひょうひょう ひょうひょう ひょうひょう ひょうひょう ひょうひょう ひょうひょう ひょうひょう

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
SMS1105GC	AlGaInP	Green	120	Water Clear	120°

Outline Dimensions





PLCC2 SMD Side View Package LED SMS1105GC, GREEN



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
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

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)	Reverse Current (μΑ) V _R =5V	Dominant Wavelength (nm) ²		Luminous Intensity (mcd) ³		Viewing Angle 2 ⊖ ½ (deg)	
	MIN	ТҮР	MAX	ТҮР	MAX	MIN	MAX	MIN	MAX	ТҮР
Green	1.8	2.2	2.6	20	10	566	575	40	200	120

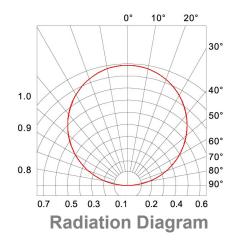
Notes: 1. Tolerance of Forward Voltage : ±0.05V.

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

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

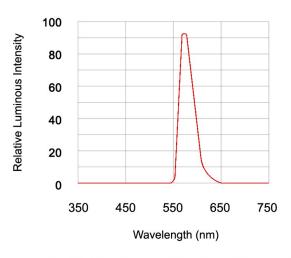
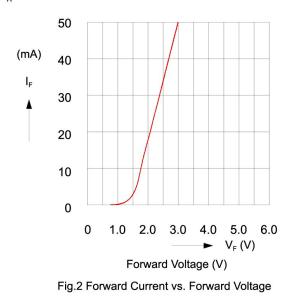


Fig.1 Relative Luminous Intensity vs. Wavelength

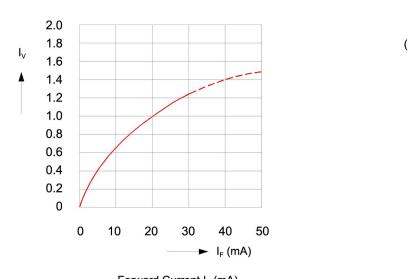
Relative Luminous Intensity I_V/I_V (20mA) = f (I_F)

T_A = 25°C

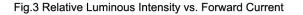
Forward Current $I_F = f (V_F)$ $T_A = 25^{\circ}C$

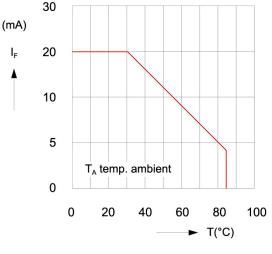


Ambient Temperature vs. Allowable Forward Current



Forward Current I_F (mA)





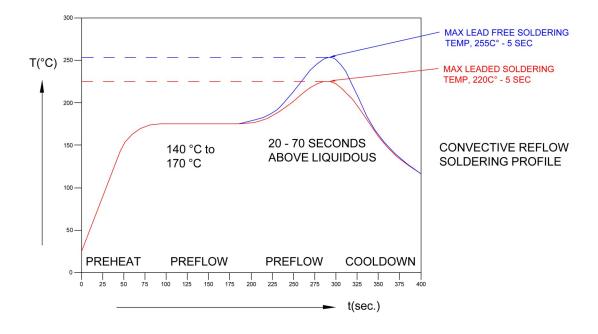
Ambient Temperature T_A (°C)

Fig.4 Forward Current vs. Ambient Temperature

PLCC2 SMD Side View Package LED SMS1105GC, GREEN

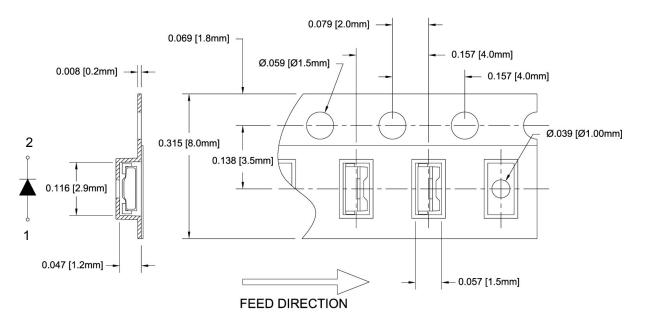


Recommended Soldering Conditions



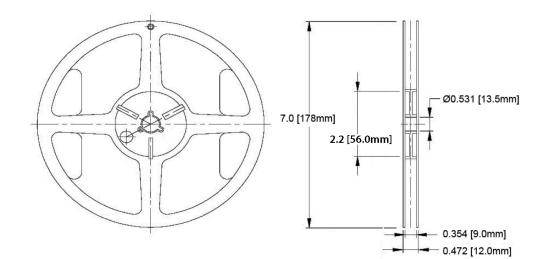
Tape and Reel Dimensions

Note: 3000 pcs/Reel



PLCC2 SMD Side View Package LED SMS1105GC, GREEN





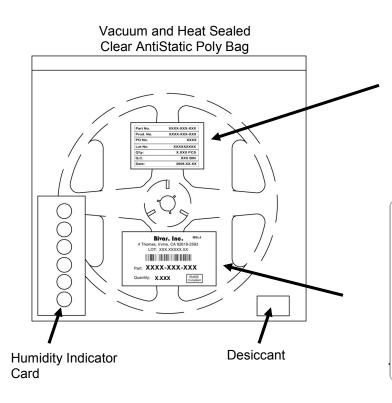
Outline Drawings Notes:

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

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.	XXXXXXXXX
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.X	Х					
Part: XXXX-XXX-XXX						
Quantity: X.XXX	RoHS Compliant					

Bivar Standard Packaging Label

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Standard LEDs - SMD category:

Click to view products by Bivar manufacturer:

Other Similar products are found below :

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